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CANADIAN PACIFIC TRAIN DERAILMENT  
MEDONTE TOWNSHIP  
SIMCOE COUNTY

February 28 – March 9, 1982

ARB-ARSP Report No. 25-82

COMPIRATION OF TIME AVERAGED  
ON-SITE  
METEOROLOGICAL DATA

June 1982

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Ministry  
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The Honourable  
Keith C. Norton, Q.C.,  
Minister

Gérard J. M. Raymond  
Deputy Minister

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EV 665  
1982  
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Air Resources Branch

Atmospheric Research and Special Programs Section  
Monitoring and Instrumentation Development Unit

ARB-ARSP Report No. 25-82

CANADIAN PACIFIC TRAIN DERAILMENT

MEDONTE TOWNSHIP - SIMCOE COUNTY

February 28 - March 9, 1982

Compilation of Time Averaged

On-Site

Meteorological Data

Ontario Ministry of the Environment  
880 Bay Street  
Toronto, Ontario  
M5S 1Z8

June 1982

## INTRODUCTION

On February 28, 1982 a Canadian Pacific Railway freight train became derailed in Medonte Township, Simcoe County. One of the derailed cars contained 39 tons of anhydrous hydrogen fluoride, presenting a potential health hazard. As a result, the Mobile Air Monitoring Units (MAMU) of the Air Resources Branch were dispatched to the scene to monitor air quality and meteorological conditions. The episode lasted from February 28, 1982 to March 9, 1982.

During this period meteorological data were collected at the junction of Highway 400 and Medonte Concession #6 (approximately 1.5 km north-northwest of the derailment site) and at the Ministry of Transportation and Communications yard near Hillsdale (approximately 8.5 km southwest of the derailment site). The map on page 2 shows the details of these locations.

This Report contains computer printouts of the wind speed, wind direction, barometric pressure and temperature data collected at these two sites. Vertical wind and temperature information are reported in the section dealing with the minisonde balloon releases. Thirteen minisonde releases were carried out over the 9 day period.

Twenty-two monitoring periods and 6 calibration periods comprised this survey and approximately 143 hours of data were acquired. All statistical values, pertaining to the regular meteorological monitored data, are based on a 60 second scan time, which is the interval for averaging the sequential interrogations of the meteorological instruments. Ten minute running averages of this data are computed and are reported in 5 minute intervals. The 10 minute averages were compiled and are presented herein. In addition, the upper air soundings are presented and constitute the second part of this report.

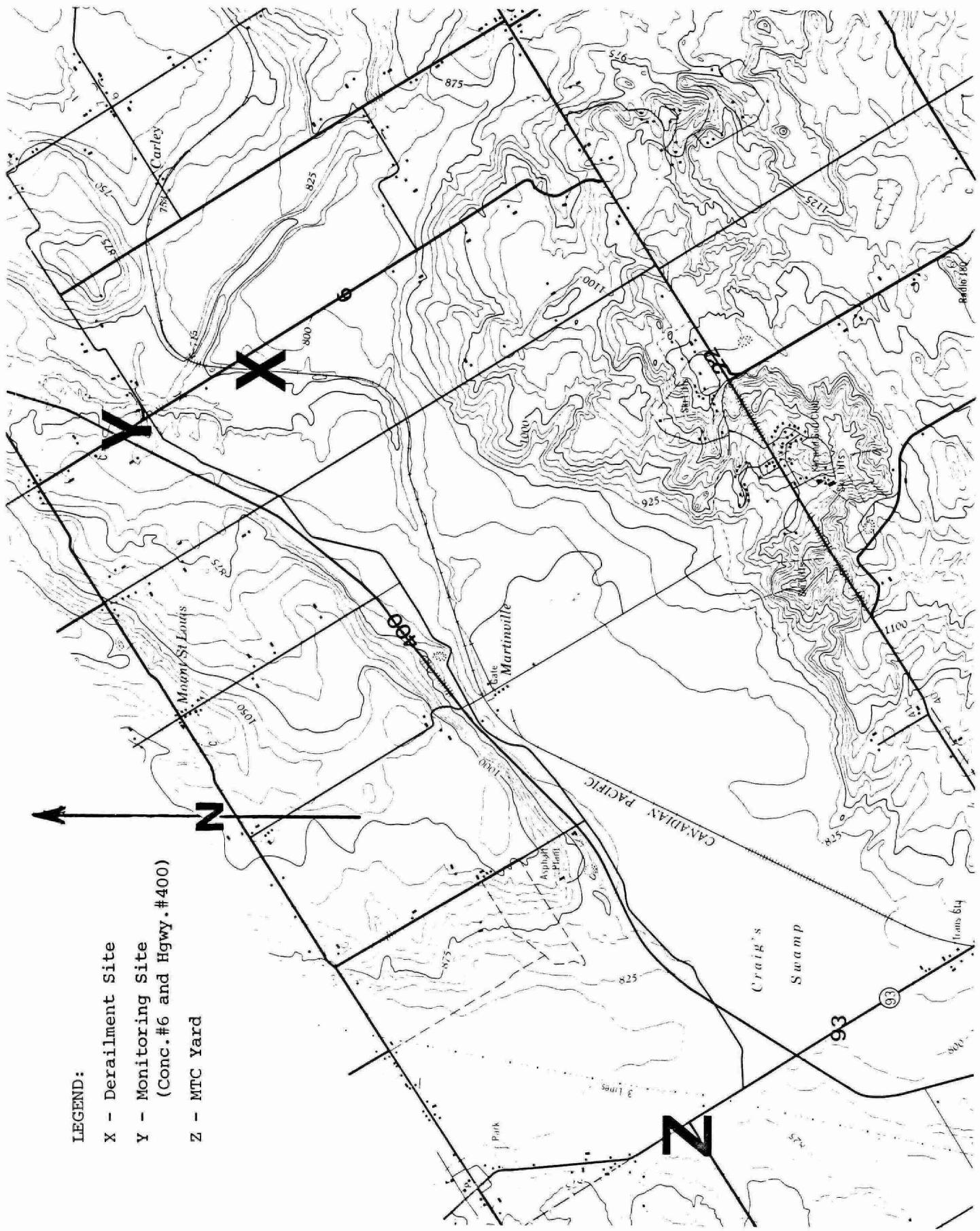
During the ongoing emergency situation, these meteorological data were utilized in the prediction exercises as to how and where potential emissions would be dispersed.

## CANADIAN PACIFIC TRAIN DERAILMENT

Medonte Township - Simcoe County  
February 28 - March 9, 1982

Scale 1:50,000

### Distance



BARRIE\_DERAIL : 2803

Start: 82/02/28 17:20 Scan: 60 sec  
Average: 10.0 min Report: 5.0 min  
Loc: On Medonte conc #6 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
17:20-17:30	-5.1	1018.9	1.	98.
17:25-17:35	-5.0	1018.9	1.	151.
17:30-17:40	-4.9	1018.9	1.	153.
17:35-17:45	-5.2	1018.9	1.	144.
17:40-17:50	-5.4	1018.9	1.	140.

BARRIE\_DERAIL : 2803

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-5.1	1018.9	-	-
Std. Dev.	.2	.0	-	-
Min Reading	-5.4	1018.8	.0	85.4
Max Reading	-4.7	1019.0	3.7	165.9
Min Average	-5.4	1018.9	.6	98.5
Max Average	-4.9	1018.9	1.3	152.6
# Valid Rdgs	30.	30.	30.	30.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
 nd Average is less than Min. Detectable Level  
 m One or more readings Missing  
 \* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
 Averaging Started at Nearest: .0 min

## BARRIE\_DERAIL : 2804

Start: 82/02/28 18:21 Scan: 60 sec  
Average: 10.0 min Report: 5.0 min  
Loc: On Medonte conc #6 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
18:21-18:31	-8.3	1018.9	0.	76.
18:26-18:36	-9.0	1018.9	0.	22.
18:31-18:41	-9.4	1018.9	0.	4.
18:36-18:46	-9.5	1018.9	0.	25.
18:41-18:51	-9.9	1018.9	0.	24.
18:46-18:56	-10.2	1018.9	0.	9.
18:51-19:01	-9.9	1018.9	0.	332.
18:56-19:06	-9.6	1018.9	0.	330.
19:01-19:11	-10.0	1018.9	0.	360.
19:06-19:16	-10.3	1018.8	0.	3.
19:11-19:21	-10.2	1018.9	0.	315.
19:16-19:26	-10.0	1018.8	0.	287.
19:21-19:31	-10.0	1018.7	0.	195.
19:26-19:36	-9.7	1018.7	0.	188.
19:31-19:41	-9.2	1018.6	0.	190.
19:36-19:46	-9.4	1018.5	0.	209.
19:41-19:51	-9.8	1018.4	0.	200.
19:46-19:56	-10.3	1018.2	0.	189.
19:51-20:01	-10.5	1018.2	0.	200.
19:56-20:06	-10.4	1018.2	0.	231.
20:01-20:11	-10.3	1018.2	0.	240.
20:06-20:16	-10.3	1018.1	0.	253.
20:11-20:21	-10.4	1018.0	0.	271.
20:16-20:26	-10.6	1018.0	0.	281.
20:21-20:31	-10.6	1017.9	0.	281.
20:26-20:36	-10.5	1017.9	0.	274.

BARRIE\_DERAIL : 2804

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-9.9	1018.5	-	-
Std. Dev.	.7	.4	-	-
Min Reading	-11.3	1017.9	.0	10.6
Max Reading	-7.4	1019.0	.9	357.6
Min Average	-10.6	1017.9	.0	3.2
Max Average	-8.3	1018.9	.3	359.7
# Valid Rdgs	138.	138.	138.	138.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
nd Average is less than Min. Detectable Level  
m One or more readings Missing  
\* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
Averaging Started at Nearest: .0 min

## BARRIE\_DERAIL : 2805

Start: 82/02/28 21:29 Scan: 60 sec  
 Average: 10.0 min Report: 5.0 min  
 Loc: MTC yard on hwy #93 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
21:29-21:39	-8.1	1015.7	4.	177.
21:34-21:44	-8.0	1015.6	4.	181.
21:39-21:49	-8.4	1014.8	4.	180.
21:44-21:54	-8.2	1014.8	4.	181.
21:49-21:59	-7.7	1015.2	5.	181.
21:54-22:04	-7.7	1015.0	5.	180.
21:59-22:09	-7.8	1014.9	5.	178.
22:04-22:14	-7.9	1014.8	6.	174.
22:09-22:19	-7.9	1014.7	5.	174.
22:14-22:24	-7.9	1014.7	4.	181.
22:19-22:29	-8.0	1014.6	4.	181.
22:24-22:34	-8.0	1014.6	4.	180.
22:29-22:39	-8.0	1014.4	4.	184.
22:34-22:44	-8.0	1014.2	5.	181.
22:39-22:49	-7.9	1014.0	5.	174.
22:44-22:54	-7.9	1013.9	5.	172.
22:49-22:59	-7.9	1013.8	5.	171.
22:54-23:04	-7.8	1013.7	5.	167.
22:59-23:09	-7.7	1013.4	7.	166.
23:04-23:14	-7.8	1013.2	7.	164.
23:09-23:19	-8.0	1013.1	7.	159.
23:14-23:24	-8.1	1013.1	7.	158.
23:19-23:29	-8.3	1013.0	7.	161.
23:24-23:34	-8.3	1013.0	6.	168.
23:29-23:39	-8.2	1013.1	6.	177.
23:34-23:44	-8.1	1013.1	7.	174.
23:39-23:49	-8.0	1013.1	7.	168.
23:44-23:54	-7.9	1013.0	7.	163.
23:49-23:59	-7.9	1012.9	7.	161.
23:54-00:04	-7.8	1012.9	6.	166.
23:59-00:09	-7.6	1012.9	5.	172.
82/03/01				
00:04-00:14	-7.3	1012.9	6.	173.
00:09-00:19	-7.1	1012.9	6.	171.
00:14-00:24	-7.1	1012.8	8.	174.
00:19-00:29	-7.1	1012.9	8.	175.
00:24-00:34	-7.1	1012.8	9.	174.
00:29-00:39	-7.0	1012.6	9.	174.
00:34-00:44	-7.0	1012.4	8.	170.
00:39-00:49	-7.1	1012.1	9.	161.
00:44-00:54	-7.2	1012.1	10.	157.
00:49-00:59	-7.2	1012.0	11.	156.
00:54-01:04	-7.1	1011.9	11.	156.
00:59-01:09	-7.2	1011.8	10.	156.
01:04-01:14	-7.4	1011.6	9.	160.
01:09-01:19	-7.3	1011.4	10.	160.
01:14-01:24	-7.2	1011.2	11.	162.
01:19-01:29	-7.2	1011.1	10.	163.
01:24-01:34	-7.1	1011.0	10.	161.
01:29-01:39	-7.1	1010.9	9.	168.
01:34-01:44	-7.1	1010.8	8.	167.

## BARRIE\_DERAIL : 2805

Time	Temp	Barom	Wind-Spd	Wind-Dir
01:39-01:49	-7.2	1010.8	8.	162.
01:44-01:54	-7.3	1010.8	9.	157.
01:49-01:59	-7.4	1010.7	8.	158.
01:54-02:04	-7.3	1010.7	7.	169.
01:59-02:09	-7.1	1010.6	6.	173.
02:04-02:14	-7.1	1010.4	7.	169.
02:09-02:19	-7.0	1010.3	10.	171.
02:14-02:24	-7.0	1010.2	10.	170.
02:19-02:29	-7.0	1010.1	8.	162.
02:24-02:34	-7.0	1010.0	7.	163.
02:29-02:39	-7.1	1009.9	10.	163.
02:34-02:44	-7.0	1009.8	10.	164.
02:39-02:49	-7.0	1009.6	8.	169.
02:44-02:54	-7.1	1009.4	8.	170.
02:49-02:59	-7.3	1009.3	10.	163.
02:54-03:04	-7.4	1009.1	11.	157.
02:59-03:09	-7.5	1009.0	8.	157.
03:04-03:14	-7.6	1008.9	8.	154.
03:09-03:19	-7.7	1008.9	8.	150.
03:14-03:24	-7.6	1008.8	7.	152.
03:19-03:29	-7.6	1008.6	9.	156.
03:24-03:34	-7.6	1008.4	8.	159.
03:29-03:39	-7.5	1008.3	6.	155.
03:34-03:44	-7.5	1008.2	8.	150.
03:39-03:49	-7.5	1008.1	9.	149.
03:44-03:54	-7.4	1008.1	8.	158.
03:49-03:59	-7.2	1008.1	9.	162.
03:54-04:04	-7.1	1008.1	9.	161.
03:59-04:09	-7.2	1008.0	10.	159.
04:04-04:14	-7.3	1007.9	9.	159.
04:09-04:19	-7.3	1007.9	6.	167.
04:14-04:24	-7.2	1008.0	5.	176.
04:19-04:29	-7.2	1008.1	5.	171.
04:24-04:34	-7.2	1008.1	5.	163.
04:29-04:39	-7.3	1008.0	2.	163.
04:34-04:44	-7.4	1007.9	4.	150.
04:39-04:49	-7.5	1007.6	6.	148.
04:44-04:54	-7.5	1007.4	9.	143.
04:49-04:59	-7.6	1007.1	10.	142.
04:54-05:04	-7.6	1007.1	6.	151.
04:59-05:09	-7.4	1007.0	6.	159.
05:04-05:14	-7.4	1006.9	8.	154.
05:09-05:19	-7.4	1006.8	9.	151.
05:14-05:24	-7.5	1006.7	10.	152.
05:19-05:29	-7.6	1006.6	9.	153.
05:24-05:34	-7.6	1006.5	6.	153.
05:29-05:39	-7.5	1006.3	6.	156.
05:34-05:44	-7.5	1006.1	8.	151.
05:39-05:49	-7.6	1006.0	10.	150.
05:44-05:54	-7.7	1005.9	11.	153.
05:49-05:59	-7.7	1005.6	11.	153.
05:54-06:04	-7.5	1005.3	11.	155.
05:59-06:09	-7.6	1005.2	9.	156.
06:04-06:14	-7.7	1005.1	8.	153.
06:09-06:19	-7.5	1005.1	6.	154.

## BARRIE\_DERAIL : 2805

Time	Temp	Barom	Wind-Spd	Wind-Dir
06:14-06:24	-7.5	1005.2	3.	169.
06:19-06:29	-7.4	1005.2	5.	160.
06:24-06:34	-7.4	1005.0	9.	146.
06:29-06:39	-7.5	1004.6	8.	142.
06:34-06:44	-7.5	1004.3	6.	143.
06:39-06:49	-7.6	1004.1	6.	147.
06:44-06:54	-7.5	1004.1	6.	159.
06:49-06:59	-7.3	1004.0	8.	161.
06:54-07:04	-7.3	1004.1	7.	162.
06:59-07:09	-7.3	1004.1	4.	173.
07:04-07:14	-7.3	1004.1	4.	193.
07:09-07:19	-7.4	1004.2	4.	205.
07:14-07:24	-7.3	1004.1	3.	190.
07:19-07:29	-7.3	1003.9	3.	175.
07:24-07:34	-7.3	1003.8	4.	163.
07:29-07:39	-7.4	1003.5	3.	149.
07:34-07:44	-7.5	1003.2	4.	156.
07:39-07:49	-7.4	1003.1	4.	163.
07:44-07:54	-7.4	1003.1	5.	163.
07:49-07:59	-7.4	1003.1	5.	171.
07:54-08:04	-7.4	1002.9	4.	172.
07:59-08:09	-7.2	1002.8	4.	165.
08:04-08:14	-7.1	1002.7	4.	168.
08:09-08:19	-7.1	1002.6	5.	163.
08:14-08:24	-7.4	1002.5	8.	164.
08:19-08:29	-7.7	1002.3	7.	167.
08:24-08:34	-7.7	1002.1	7.	159.
08:29-08:39	-7.4	1001.9	7.	159.
08:34-08:44	-6.9	1001.8	5.	155.
08:39-08:49	-6.7	1001.7	6.	154.
08:44-08:54	-6.4	1001.7	8.	162.
08:49-08:59	-6.3	1001.5	9.	163.
08:54-09:04	-6.3	1001.4	8.	164.
08:59-09:09	-6.1	1001.2	8.	173.
09:04-09:14	-5.6	1001.1	7.	183.
09:09-09:19	-5.3	1000.9	7.	182.

BARRIE\_DERAIL : 2805

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-7.4	1008.6	-	-
Std. Dev.	.5	4.2	-	-
Min Reading	-11.8	1000.7	.4	127.1
Max Reading	-5.2	1015.9	20.0	222.7
Min Average	-8.4	1000.9	2.3	141.5
Max Average	-5.3	1015.7	11.5	204.5
# Valid Rdgs	710.	710.	710.	710.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
nd Average is less than Min. Detectable Level  
# One or more readings Missing  
\* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
Averaging Started at Nearest: .0 min

BARRIE\_DERAIL : 0101

Start: 82/03/01 13:47      Scan: 60 sec  
Average: 10.0 min      Report: 5.0 min  
Loc: THIS IS FIRST CALIB AT SITE

Time	Temp	Barom	Wind-Spd	Wind-Dir
------	------	-------	----------	----------

BARRIE\_DERAIL : 0101

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-.3	994.5	-	-
Std. Dev.	.0	.1	-	-
Min Reading	-.3	994.4	10.5	179.3
Max Reading	-.3	994.6	10.6	187.2
# Valid Rdgs	2.	2.	2.	2.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
nd Average is less than Min. Detectable Level  
m One or more readings Missing  
† Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
Averaging Started at Nearest: .0 min

Start: 82/03/01 20:23 Scan: 60 sec  
 Average: 10.0 min Report: 5.0 min  
 Loc: MTC yard on hwy #93 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
20:23-20:33	-4.6	997.0	22.	311.
20:28-20:38	-4.6	997.0	22.	311.
20:33-20:43	-4.7	997.1	20.	309.
20:38-20:48	-4.7	997.0	21.	308.
20:43-20:53	-4.6	997.0	18.	309.
20:48-20:58	-4.5	997.0	17.	308.
20:53-21:03	-4.4	997.1	18.	309.
20:58-21:08	-4.4	997.1	16.	311.
21:03-21:13	-4.4	997.1	17.	312.
21:08-21:18	-4.3	997.1	19.	315.
21:13-21:23	-4.4	997.1	22.	316.
21:18-21:28	-4.5	997.1	27.	317.
21:23-21:33	-4.5	997.1	26.	318.
21:28-21:38	-4.5	997.1	23.	314.
21:33-21:43	-4.6	997.1	21.	311.
21:38-21:48	-4.7	997.1	20.	313.
21:43-21:53	-4.7	997.2	20.	314.
21:48-21:58	-4.7	997.2	21.	310.
21:53-22:03	-4.7	997.2	21.	309.
21:58-22:08	-4.6	997.3	20.	311.
22:03-22:13	-4.4	997.3	21.	312.
22:08-22:18	-4.4	997.4	23.	312.
22:13-22:23	-4.4	997.4	25.	315.
22:18-22:28	-4.4	997.3	28.	315.
22:23-22:33	-4.5	997.3	30.	317.
22:28-22:38	-4.5	997.3	30.	320.
22:33-22:43	-4.5	997.3	28.	319.
22:38-22:48	-4.7	997.3	29.	318.
22:43-22:53	-4.7	997.2	27.	316.
22:48-22:58	-4.8	997.3	25.	314.
22:53-23:03	-4.8	997.3	23.	313.
22:58-23:08	-4.8	997.3	23.	312.
23:03-23:13	-4.8	997.4	23.	311.
23:08-23:18	-4.8	997.5	23.	311.
23:13-23:23	-4.9	997.5	24.	310.
23:18-23:28	-4.9	997.5	23.	307.
23:23-23:33	-5.0	997.5	22.	305.
23:28-23:38	-5.2	997.3	18.	303.
23:33-23:43	-5.2	997.3	19.	305.
23:38-23:48	-5.4	997.2	19.	309.
23:43-23:53	-5.5	997.2	17.	311.
23:48-23:58	-5.6	997.1	16.	310.
23:53-00:03	-5.6	997.1	16.	308.
23:58-00:08	-5.6	997.0	17.	309.
82/03/02				
00:03-00:13	-5.5	997.0	18.	308.
00:08-00:18	-5.3	997.0	19.	308.
00:13-00:23	-5.3	997.0	20.	310.
00:18-00:28	-5.3	997.0	23.	310.
00:23-00:33	-5.3	997.0	25.	310.
00:28-00:38	-5.4	997.0	26.	313.

BARRIE\_DERAIL : 0102

Time	Temp	Barom	Wind-Spd	Wind-Dir
00:33-00:43	-5.5	996.9	28.	316.

BARRIE\_DERAIL : 0102

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-4.8	997.2	-	-
Std. Dev.	.4	.2	-	-
Min Reading	-5.7	996.9	11.8	298.2
Max Reading	-4.3	997.6	33.9	324.7
Min Average	-5.6	996.9	15.8	303.0
Max Average	-4.3	997.5	30.0	320.3
# Valid Rdgs	261.	261.	261.	261.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
nd Average is less than Min. Detectable Level  
m One or more readings Missing  
\* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
Averaging Started at Nearest: .0 min

Start: 82/03/02 00:47      Scan: 60 sec  
 Average: 10.0 min      Report: 5.0 min  
 Loc: MTC yard on hwy #93 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
00:47-00:57	-5.6	997.1	22.	315.
00:52-01:02	-5.6	997.1	18.	315.
00:57-01:07	-5.7	997.1	14.	315.
01:02-01:12	-5.8	997.1	11.	313.
01:07-01:17	-5.9	997.1	9.	312.
01:12-01:22	-5.9	997.1	10.	309.
01:17-01:27	-5.9	997.1	12.	307.
01:22-01:32	-5.9	997.1	11.	309.
01:27-01:37	-5.8	997.1	13.	313.
01:32-01:42	-5.7	997.1	15.	313.
01:37-01:47	-5.6	997.1	16.	312.
01:42-01:52	-5.6	997.1	16.	311.
01:47-01:57	-5.6	997.1	17.	315.
01:52-02:02	-5.7	997.1	19.	318.
01:57-02:07	-5.7	997.1	20.	318.
02:02-02:12	-5.7	997.1	22.	320.
02:07-02:17	-5.7	997.1	24.	320.
02:12-02:22	-5.7	997.1	23.	321.
02:17-02:27	-5.7	997.1	21.	322.
02:22-02:32	-5.7	997.1	21.	320.
02:27-02:37	-5.7	997.1	20.	319.
02:32-02:42	-5.8	997.2	19.	321.
02:37-02:47	-5.7	997.2	19.	324.
02:42-02:52	-5.7	997.2	19.	329.
02:47-02:57	-5.6	997.2	19.	328.
02:52-03:02	-5.6	997.2	18.	326.
02:57-03:07	-5.6	997.3	19.	325.
03:02-03:12	-5.6	997.2	18.	325.
03:07-03:17	-5.6	997.2	19.	326.
03:12-03:22	-5.6	997.2	19.	328.
03:17-03:27	-5.7	997.2	17.	332.
03:22-03:32	-5.7	997.3	15.	335.
03:27-03:37	-5.7	997.4	14.	337.
03:32-03:42	-5.7	997.4	15.	339.
03:37-03:47	-5.8	997.4	15.	339.
03:42-03:52	-5.9	997.4	15.	335.
03:47-03:57	-5.9	997.4	16.	332.
03:52-04:02	-5.9	997.3	18.	332.
03:57-04:07	-5.9	997.3	19.	333.
04:02-04:12	-5.9	997.3	18.	334.
04:07-04:17	-5.9	997.3	18.	335.
04:12-04:22	-5.9	997.3	18.	335.
04:17-04:27	-5.9	997.3	17.	338.
04:22-04:32	-5.9	997.3	16.	342.
04:27-04:37	-5.9	997.2	14.	343.
04:32-04:42	-6.0	997.3	15.	346.
04:37-04:47	-6.1	997.3	15.	343.
04:42-04:52	-6.2	997.3	14.	342.
04:47-04:57	-6.4	997.3	14.	341.
04:52-05:02	-6.4	997.3	14.	339.
04:57-05:07	-6.5	997.3	13.	340.

## BARRIE\_DERAIL : 0103

Time	Temp	Barom	Wind-Spd	Wind-Dir
05:02-05:12	-6.5	997.3	12.	337.
05:07-05:17	-6.6	997.4	11.	337.
05:12-05:22	-6.7	997.6	10.	338.
05:17-05:27	-6.6	997.7	10.	337.
05:22-05:32	-6.6	997.6	10.	339.
05:27-05:37	-6.6	997.6	11.	342.
05:32-05:42	-6.6	997.7	14.	344.
05:37-05:47	-6.5	997.7	15.	344.
05:42-05:52	-6.5	997.7	16.	339.
05:47-05:57	-6.5	997.7	17.	338.
05:52-06:02	-6.5	997.7	14.	339.
05:57-06:07	-6.5	997.7	13.	339.
06:02-06:12	-6.6	997.7	14.	338.
06:07-06:17	-6.5	997.6	14.	340.
06:12-06:22	-6.5	997.6	15.	340.
06:17-06:27	-6.5	997.5	14.	338.
06:22-06:32	-6.5	997.4	12.	337.
06:27-06:37	-6.6	997.5	13.	336.
06:32-06:42	-6.6	997.7	16.	334.
06:37-06:47	-6.6	997.7	17.	334.
06:42-06:52	-6.6	997.7	19.	339.
06:47-06:57	-6.6	997.7	20.	338.
06:52-07:02	-6.7	997.7	19.	332.
06:57-07:07	-6.8	997.7	18.	331.
07:02-07:12	-6.8	997.7	17.	333.
07:07-07:17	-6.8	997.7	15.	332.
07:12-07:22	-6.9	997.7	13.	328.
07:17-07:27	-7.0	997.7	13.	325.
07:22-07:32	-7.0	997.7	15.	330.
07:27-07:37	-6.9	997.8	16.	331.
07:32-07:42	-7.0	997.8	16.	327.
07:37-07:47	-7.1	997.9	14.	326.
07:42-07:52	-7.1	997.9	11.	323.
07:47-07:57	-7.1	997.9	10.	322.
07:52-08:02	-7.1	998.0	12.	324.
07:57-08:07	-7.1	998.1	12.	322.
08:02-08:12	-7.2	998.1	11.	320.
08:07-08:17	-7.1	998.2	9.	322.
08:12-08:22	-7.1	998.2	10.	319.
08:17-08:27	-7.1	998.2	10.	317.
08:22-08:32	-7.1	998.2	12.	316.
08:27-08:37	-7.0	998.2	14.	315.
08:32-08:42	-6.9	998.3	16.	316.
08:37-08:47	-6.9	998.5	18.	317.
08:42-08:52	-7.0	998.6	22.	314.
08:47-08:57	-7.1	998.6	24.	315.
08:52-09:02	-7.1	998.6	23.	318.
08:57-09:07	-7.1	998.5	24.	314.
09:02-09:12	-7.1	998.4	26.	314.
09:07-09:17	-7.1	998.4	25.	316.
09:12-09:22	-7.1	998.5	32.	321.
09:17-09:27	-7.0	998.6	32.	325.
09:22-09:32	-7.0	998.6	27.	326.
09:27-09:37	-7.1	998.5	28.	322.
09:32-09:42	-7.2	998.6	27.	321.

BARRIE\_DERAIL : 0103

Time	Temp	Barom	Wind-Spd	Wind-Dir
09:37-09:47	-7.1	998.6	23.	326.
09:42-09:52	-7.0	998.7	23.	327.
09:47-09:57	-6.9	998.7	24.	325.
09:52-10:02	-7.0	998.6	24.	322.
09:57-10:07	-6.8	998.6	27.	326.
10:02-10:12	-6.8	998.6	28.	330.
10:07-10:17	-7.0	998.7	25.	328.
10:12-10:22	-7.0	998.8	22.	334.
10:17-10:27	-7.2	998.9	22.	335.
10:22-10:32	-7.3	998.9	22.	328.
10:27-10:37	-7.2	998.9	21.	329.
10:32-10:42	-6.7	998.9	19.	335.
10:37-10:47	-6.3	998.9	20.	336.
10:42-10:52	-6.6	998.8	21.	331.
10:47-10:57	-7.0	998.8	21.	325.
10:52-11:02	-7.0	998.8	20.	325.
10:57-11:07	-6.7	998.8	19.	327.
11:02-11:12	-6.3	998.8	20.	329.
11:07-11:17	-6.3	998.8	22.	329.
11:12-11:22	-6.7	998.8	25.	327.

BARRIE\_DERAIL : 0103

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-6.4	997.8	-	-
Std. Dev.	.6	.6	-	-
Min Reading	-7.4	997.1	5.9	296.2
Max Reading	-5.5	999.0	64.2	355.0
Min Average	-7.3	997.1	9.0	307.4
Max Average	-5.6	998.9	32.1	346.0
# Valid Rdgs	639.	639.	639.	639.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
 nd Average is less than Min. Detectable Level  
 m One or more readings Missing  
 \* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
 Averaging Started at Nearest: .0 min

Start: 82/03/02 16:20      Scan: 60 sec  
 Average: 10.0 min      Report: 5.0 min  
 Loc: MTC yard on hwy #93 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
16:20-16:30	-7.6	1014.4	25.	348.
16:25-16:35	-7.6	1014.6	23.	344.
16:30-16:40	-7.7	1014.8	21.	342.
16:35-16:45	-7.9	1014.8	18.	334.
16:40-16:50	-8.1	1014.8	18.	329.
16:45-16:55	-8.1	1014.8	19.	328.
16:50-17:00	-8.2	1014.8	19.	328.
16:55-17:05	-8.1	1014.9	17.	329.
17:00-17:10	-8.2	1014.9	15.	328.
17:05-17:15	-8.2	1015.0	12.	328.
17:10-17:20	-8.3	1015.1	11.	326.
17:15-17:25	-8.5	1015.2	11.	325.
17:20-17:30	-8.8	1015.2	10.	326.
17:25-17:35	-9.0	1015.1	11.	326.
17:30-17:40	-9.1	1015.1	12.	328.
17:35-17:45	-9.1	1015.1	11.	330.
17:40-17:50	-9.0	1015.2	11.	334.
17:45-17:55	-9.3	1015.3	11.	334.
17:50-18:00	-9.4	1015.5	11.	334.
17:55-18:05	-9.5	1015.7	11.	334.
18:00-18:10	-9.6	1015.7	11.	330.
18:05-18:15	-9.4	1015.8	10.	331.
18:10-18:20	-9.3	1015.8	11.	331.
18:15-18:25	-9.6	1015.8	12.	330.
18:20-18:30	-9.6	1015.9	11.	330.
18:25-18:35	-9.9	1015.9	11.	326.
18:30-18:40	-10.4	1015.9	10.	322.
18:35-18:45	-10.7	1016.0	10.	323.
18:40-18:50	-10.7	1016.1	9.	324.
18:45-18:55	-10.8	1016.2	9.	319.
18:50-19:00	-10.8	1016.3	7.	312.
18:55-19:05	-10.6	1016.5	5.	307.
19:00-19:10	-10.1	1016.8	4.	304.
19:05-19:15	-10.1	1016.8	4.	300.
19:10-19:20	-10.4	1016.8	5.	301.
19:15-19:25	-10.8	1016.9	5.	308.
19:20-19:30	-11.1	1016.9	5.	317.
19:25-19:35	-11.2	1017.0	5.	322.
19:30-19:40	-11.2	1017.0	5.	324.
19:35-19:45	-10.9	1017.1	7.	327.
19:40-19:50	-10.9	1017.1	8.	328.
19:45-19:55	-11.3	1017.1	9.	326.
19:50-20:00	-11.5	1017.1	10.	325.
19:55-20:05	-11.5	1017.1	10.	326.
20:00-20:10	-11.7	1017.2	10.	327.
20:05-20:15	-11.9	1017.2	10.	326.
20:10-20:20	-12.0	1017.3	11.	326.
20:15-20:25	-11.8	1017.5	12.	325.
20:20-20:30	-11.8	1017.7	12.	325.
20:25-20:35	-11.9	1017.8	11.	324.
20:30-20:40	-12.0	1017.8	11.	324.

## BARRIE\_DERAIL : 0202

Time	Temp	Barom	Wind-Spd	Wind-Dir
20:35-20:45	-12.1	1017.9	11.	327.
20:40-20:50	-12.2	1017.9	11.	329.
20:45-20:55	-12.3	1017.9	11.	329.
20:50-21:00	-12.4	1017.9	11.	328.
20:55-21:05	-12.5	1018.0	11.	328.
21:00-21:10	-12.6	1018.1	11.	329.
21:05-21:15	-12.3	1018.1	12.	332.
21:10-21:20	-11.9	1018.1	12.	335.
21:15-21:25	-12.0	1018.2	12.	337.
21:20-21:30	-12.0	1018.2	12.	339.
21:25-21:35	-11.8	1018.4	11.	344.
21:30-21:40	-11.6	1018.6	10.	348.
21:35-21:45	-11.6	1018.8	8.	350.
21:40-21:50	-12.0	1018.8	5.	354.
21:45-21:55	-12.1	1018.9	3.	1.
21:50-22:00	-12.1	1018.9	4.	6.
21:55-22:05	-12.2	1018.9	5.	8.
22:00-22:10	-12.2	1018.9	6.	10.
22:05-22:15	-12.1	1019.0	6.	12.
22:10-22:20	-12.0	1019.0	6.	12.
22:15-22:25	-12.2	1019.0	7.	11.
22:20-22:30	-12.4	1019.1	7.	10.
22:25-22:35	-12.5	1019.1	6.	9.
22:30-22:40	-12.8	1019.1	5.	8.
22:35-22:45	-12.7	1019.1	4.	9.
22:40-22:50	-12.7	1019.2	5.	8.
22:45-22:55	-12.1	1019.2	5.	6.
22:50-23:00	-12.2	1019.2	6.	9.
22:55-23:05	-12.8	1019.4	6.	13.
23:00-23:10	-12.9	1019.7	7.	15.
23:05-23:15	-13.0	1019.8	6.	14.
23:10-23:20	-13.1	1019.8	6.	11.
23:15-23:25	-13.2	1019.8	7.	9.
23:20-23:30	-13.2	1019.9	7.	13.
23:25-23:35	-13.3	1019.9	5.	18.
23:30-23:40	-13.4	1019.9	2.	21.
23:35-23:45	-13.7	1020.0	2.	26.
23:40-23:50	-13.9	1020.1	2.	29.
23:45-23:55	-13.8	1020.1	3.	24.
23:50-00:00	-13.6	1020.1	5.	16.
23:55-00:05	-13.5	1020.2	5.	12.
82/03/03				
00:00-00:10	-13.6	1020.4	5.	15.
00:05-00:15	-13.7	1020.4	6.	21.
00:10-00:20	-13.7	1020.3	4.	26.
00:15-00:25	-13.9	1020.6	2.	35.
00:20-00:30	-14.3	1020.7	1.	40.
00:25-00:35	-14.6	1020.8	1.	35.
00:30-00:40	-14.7	1020.8	2.	26.
00:35-00:45	-14.6	1020.8	4.	23.
00:40-00:50	-14.6	1020.8	5.	21.
00:45-00:55	-14.6	1020.8	5.	21.
00:50-01:00	-14.6	1020.8	5.	23.
00:55-01:05	-14.7	1020.8	5.	25.
01:00-01:10	-14.8	1020.9	4.	26.

## BARRIE\_DERAIL : 0202

Time	Temp	Barom	Wind-Spd	Wind-Dir
01:05-01:15	-15.0	1021.0	4.	26.
01:10-01:20	-14.9	1021.1	3.	27.
01:15-01:25	-14.9	1021.1	4.	26.
01:20-01:30	-15.2	1021.1	5.	22.
01:25-01:35	-15.0	1021.1	5.	18.
01:30-01:40	-14.6	1021.2	5.	15.
01:35-01:45	-14.9	1021.1	6.	15.
01:40-01:50	-15.3	1021.1	7.	13.
01:45-01:55	-15.1	1021.2	7.	11.
01:50-02:00	-14.9	1021.4	7.	10.
01:55-02:05	-15.0	1021.7	7.	11.
02:00-02:10	-15.4	1021.8	8.	13.
02:05-02:15	-15.7	1021.8	9.	14.
02:10-02:20	-15.7	1021.8	10.	16.
02:15-02:25	-15.7	1021.8	10.	17.
02:20-02:30	-15.8	1021.9	10.	15.
02:25-02:35	-15.8	1021.9	9.	14.
02:30-02:40	-15.9	1021.9	10.	13.
02:35-02:45	-15.9	1021.9	10.	12.
02:40-02:50	-16.0	1021.9	10.	11.
02:45-02:55	-16.0	1022.0	11.	10.
02:50-03:00	-16.0	1022.0	10.	10.
02:55-03:05	-16.1	1022.0	9.	10.
03:00-03:10	-16.2	1022.1	8.	11.
03:05-03:15	-16.3	1022.1	8.	12.
03:10-03:20	-16.5	1022.1	7.	12.
03:15-03:25	-16.5	1022.1	7.	10.
03:20-03:30	-16.2	1022.2	8.	7.
03:25-03:35	-15.9	1022.2	7.	7.
03:30-03:40	-16.0	1022.3	6.	10.
03:35-03:45	-16.5	1022.3	6.	14.
03:40-03:50	-17.0	1022.5	4.	16.
03:45-03:55	-17.2	1022.7	2.	19.
03:50-04:00	-17.3	1022.6	1.	27.
03:55-04:05	-17.5	1022.5	1.	23.
04:00-04:10	-17.7	1022.6	1.	20.
04:05-04:15	-17.2	1022.8	0.	14.
04:10-04:20	-17.5	1022.8	0.	9.
04:15-04:25	-18.6	1022.8	0.	13.
04:20-04:30	-19.4	1022.8	0.	15.
04:25-04:35	-19.5	1022.8	0.	19.
04:30-04:40	-19.9	1022.8	1.	20.
04:35-04:45	-19.8	1022.9	1.	20.
04:40-04:50	-18.7	1022.9	1.	19.
04:45-04:55	-18.1	1022.9	0.	17.
04:50-05:00	-18.7	1023.0	0.	20.
04:55-05:05	-19.4	1023.0	0.	20.
05:00-05:10	-19.0	1023.1	0.	19.
05:05-05:15	-19.6	1023.1	1.	25.
05:10-05:20	-20.3	1023.1	1.	22.
05:15-05:25	-19.3	1023.1	1.	16.
05:20-05:30	-19.3	1023.2	0.	20.
05:25-05:35	-20.5	1023.2	0.	31.
05:30-05:40	-21.5	1023.2	0.	34.
05:35-05:45	-22.8	1023.4	0.	243.

## BARRIE\_DERAIL : 0202

Time	Temp	Barom	Wind-Spd	Wind-Dir
05:40-05:50	-23.5	1023.7	1.	230.
05:45-05:55	-23.5	1023.9	1.	227.
05:50-06:00	-23.3	1024.0	0.	228.
05:55-06:05	-22.9	1024.0	0.	278.
06:00-06:10	-22.9	1024.1	0.	307.
06:05-06:15	-23.1	1024.2	0.	327.
06:10-06:20	-22.8	1024.3	0.	326.
06:15-06:25	-22.4	1024.5	0.	323.
06:20-06:30	-22.2	1024.7	0.	324.
06:25-06:35	-22.1	1024.8	0.	335.
06:30-06:40	-22.0	1024.8	0.	349.
06:35-06:45	-22.2	1024.9	0.	354.
06:40-06:50	-22.7	1024.9	0.	12.
06:45-06:55	-22.6	1024.9	0.	21.
06:50-07:00	-22.2	1025.0	0.	32.
06:55-07:05	-23.1	1025.0	0.	73.

BARRIE\_DERAIL : 0202

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-14.3	1019.8	-	-
Std. Dev.	4.2	3.0	-	-
Min Reading	-24.2	1014.2	.0	1.9
Max Reading	-7.4	1025.1	26.8	359.6
Min Average	-23.5	1014.4	.0	1.3
Max Average	-7.6	1025.0	24.8	354.4
# Valid Rdgs	838.	888.	888.	888.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
 nd Average is less than Min. Detectable Level  
 m One or more readings Missing  
 t Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
 Averaging Started at Nearest: .0 min

## BARRIE\_DERAIL : 0303

Start: 82/03/03 08:23 Scan: 60 sec  
Average: 10.0 min Report: 5.0 min  
Loc: MTC yard on hwy #93 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
08:23-08:33	-17.0	1026.5	1.	19.
08:28-08:38	-17.1	1026.7	1.	22.
08:33-08:43	-17.0	1026.8	0.	178.
08:38-08:48	-16.8	1026.9	0.	163.
08:43-08:53	-16.6	1026.9	0.	141.
08:48-08:58	-16.4	1026.9	0.	142.
08:53-09:03	-16.0	1026.8	0.	142.
08:58-09:08	-15.8	1026.8	0.	41.
09:03-09:13	-15.8	1026.8	4.	12.
09:08-09:18	-15.8	1026.7	6.	11.
09:13-09:23	-15.3	1026.6	5.	2.
09:18-09:28	-14.6	1026.7	7.	351.
09:23-09:33	-14.6	1026.8	7.	341.
09:28-09:38	-15.0	1026.8	8.	335.
09:33-09:43	-15.3	1026.8	6.	334.

BARRIE\_DERAIL : 0303

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-15.9	1026.8	-	-
Std. Dev.	.9	.2	-	-
Min Reading	-17.3	1026.2	.0	.3
Max Reading	-14.2	1026.9	10.4	358.2
Min Average	-17.1	1026.5	.0	1.8
Max Average	-14.6	1026.9	7.6	350.9
# Valid Rdgs	82.	82.	82.	82.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
 nd Average is less than Min. Detectable Level  
 m One or more readings Missing  
 \* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
 Averaging Started at Nearest: .0 min

## BARRIE\_DERAIL : 0304

Start: 82/03/03 11:32 Scan: 60 sec  
Average: 10.0 min Report: 5.0 min  
Loc: MTC yard on hwy #93 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
11:32-11:42	-13.6	1026.8	10.	304.
11:37-11:47	-13.8	1026.8	10.	305.
11:42-11:52	-13.7	1026.8	10.	307.
11:47-11:57	-13.5	1026.8	9.	305.
11:52-12:02	-13.2	1026.8	9.	302.
11:57-12:07	-13.1	1026.8	10.	306.
12:02-12:12	-13.3	1026.8	11.	306.
12:07-12:17	-13.3	1026.8	11.	307.
12:12-12:22	-13.2	1026.8	11.	309.
12:17-12:27	-13.1	1026.8	9.	303.
12:22-12:32	-13.0	1026.8	9.	296.
12:27-12:37	-12.9	1026.8	11.	306.
12:32-12:42	-13.0	1026.8	12.	309.
12:37-12:47	-12.9	1026.7	10.	301.
12:42-12:52	-12.9	1026.7	11.	305.
12:47-12:57	-13.2	1026.5	11.	306.
12:52-13:02	-13.0	1026.2	10.	303.
12:57-13:07	-12.9	1026.2	10.	305.

BARRIE\_DERAIL : 0304

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-13.2	1026.7	-	-
Std. Dev.	.3	.2	-	-
Min Reading	-13.8	1026.2	6.1	282.0
Max Reading	-12.4	1027.1	14.9	323.6
Min Average	-13.8	1026.2	8.7	296.5
Max Average	-12.9	1026.8	11.6	309.2
# Valid Rdgs	99.	99.	99.	99.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
 nd Average is less than Min. Detectable Level  
 m One or more readings Missing  
 \* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
 Averaging Started at Nearest: .0 min

## BARRIE\_DERAIL : 0305

Start: 82/03/03 15:30 Scan: 60 sec  
Average: 10.0 min Report: 5.0 min  
Loc: On Medonte conc #6 near hwy #400

Time	SolarRad	Temp	Barom	Wind-Spd	Wind-Dir
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BARRIE\_DERAIL : 0305

Statistics Units	SolarRad W/cm <sup>2</sup>	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	.0000	-9.7	1027.0	-	-
Min Reading	.0000	-9.7	1027.0	11.2	296.0
Max Reading	.0000	-9.7	1027.0	11.2	296.0
# Valid Rdg	1.	1.	1.	1.	1.
Min.Det.Lev	-	-	950.0	-	-

- Invalid Data / Not Calculated  
 nd Average is less than Min. Detectable Level  
 m One or more readings Missing  
 \* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
 Averaging Started at Nearest: .0 min

## BARRIE\_DERAIL : 0306

Start: 82/03/03 15:33 Scan: 60 sec  
Average: 10.0 min Report: 5.0 min  
Loc: On Medonte conc #6 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
15:33-15:43	-8.9	1027.1	12.	287.
15:38-15:48	-9.1	1027.1	11.	292.
15:43-15:53	-9.3	1027.1	10.	298.
15:48-15:58	-9.3	1027.1	11.	299.
15:53-16:03	-9.4	1027.1	10.	295.
15:58-16:08	-9.4	1027.1	11.	290.
16:03-16:13	-9.5	1027.1	10.	294.
16:08-16:18	-9.7	1027.0	9.	300.
16:13-16:23	-9.5	1027.0	7.	297.
16:18-16:28	-9.3	1027.1	8.	295.
16:23-16:33	-9.7	1027.1	9.	301.
16:28-16:38	-10.0	1027.1	10.	307.
16:33-16:43	-10.1	1027.1	11.	308.
16:38-16:48	-10.2	1027.1	9.	310.
16:43-16:53	-10.0	1026.9	8.	297.
16:48-16:58	-9.7	1026.8	6.	290.
16:53-17:03	-9.4	1026.7	3.	305.
16:58-17:08	-9.4	1026.7	3.	314.
17:03-17:13	-10.0	1026.8	7.	321.
17:08-17:18	-11.0	1026.8	10.	327.

BARRIE\_DERAIL : 0306

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-9.7	1027.0	-	-
Std. Dev.	.7	.2	-	-
Min Reading	-11.9	1026.4	.7	277.7
Max Reading	-8.5	1027.3	14.8	342.2
Min Average	-11.0	1026.7	3.1	287.3
Max Average	-8.9	1027.1	11.5	327.2
# Valid Rdgs	109.	109.	109.	109.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
 nd Average is less than Min. Detectable Level  
 m One or more readings Missing  
 \* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
 Averaging Started at Nearest: .0 min

## BARRIE\_DERAIL : 0307

Start: 82/03/03 20:38 Scan: 60 sec  
 Average: 10.0 min Report: 5.0 min  
 Loc: On Medonte conc #6 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
20:38-20:48	-19.4	1027.5	0.	248.
20:43-20:53	-19.2	1027.8	1.	238.
20:48-20:58	-19.2	1027.8	1.	236.
20:53-21:03	-19.5	1027.8	1.	218.
20:58-21:08	-19.7	1027.8	1.	207.
21:03-21:13	-19.6	1027.8	0.	209.
21:08-21:18	-20.0	1027.8	1.	253.
21:13-21:23	-20.6	1027.8	1.	262.
21:18-21:28	-20.0	1027.8	0.	301.
21:23-21:33	-18.9	1027.8	0.	274.
21:28-21:38	-18.9	1027.7	1.	177.
21:33-21:43	-19.6	1027.4	1.	178.
21:38-21:48	-19.9	1027.2	0.	219.
21:43-21:53	-20.1	1027.0	0.	239.
21:48-21:58	-20.5	1027.0	0.	235.
21:53-22:03	-20.7	1027.1	0.	229.
21:58-22:08	-20.6	1027.1	0.	208.
22:03-22:13	-20.8	1027.1	0.	179.
22:08-22:18	-20.8	1027.1	1.	228.
22:13-22:23	-20.7	1027.2	2.	236.
22:18-22:28	-20.9	1027.2	2.	237.
22:23-22:33	-21.3	1027.3	2.	241.
22:28-22:38	-21.2	1027.6	2.	245.
22:33-22:43	-21.3	1027.7	0.	235.
22:38-22:48	-21.6	1027.7	0.	145.
22:43-22:53	-21.3	1027.5	0.	159.
22:48-22:58	-21.0	1027.2	0.	183.
22:53-23:03	-21.2	1027.2	0.	189.
22:58-23:08	-21.3	1027.1	1.	176.
23:03-23:13	-21.4	1027.1	1.	175.
23:08-23:18	-21.4	1027.1	0.	198.
23:13-23:23	-20.6	1027.1	0.	326.
23:18-23:28	-20.2	1027.1	0.	337.
23:23-23:33	-20.5	1027.0	0.	344.
23:28-23:38	-20.7	1026.9	0.	344.
23:33-23:43	-21.0	1026.9	0.	298.
23:38-23:48	-21.2	1026.7	0.	212.
23:43-23:53	-21.3	1026.4	0.	175.
23:48-23:58	-21.4	1026.2	0.	181.
23:53-00:03	-21.5	1026.1	0.	190.
23:58-00:08	-21.4	1026.1	0.	197.
82/03/04				
00:03-00:13	-21.4	1026.1	0.	227.
00:08-00:18	-21.4	1026.1	0.	262.
00:13-00:23	-21.2	1026.1	0.	254.
00:18-00:28	-21.4	1026.1	0.	252.
00:23-00:33	-21.6	1026.1	0.	255.
00:28-00:38	-21.3	1026.1	0.	268.
00:33-00:43	-20.9	1026.1	0.	284.
00:38-00:48	-20.4	1025.9	0.	293.
00:43-00:53	-20.1	1025.9	0.	289.

## BARRIE\_DERAIL : 0307

Time	Temp	Barom	Wind-Spd	Wind-Dir
00:48-00:58	-20.7	1025.8	0.	279.
00:53-01:03	-21.2	1025.8	0.	249.
00:58-01:08	-21.4	1025.8	0.	254.
01:03-01:13	-21.2	1025.6	0.	262.
01:08-01:18	-21.0	1025.3	0.	266.
01:13-01:23	-21.2	1025.2	0.	277.
01:18-01:28	-21.5	1025.2	0.	275.
01:23-01:33	-21.2	1025.2	0.	308.
01:28-01:38	-21.0	1025.1	0.	318.
01:33-01:43	-20.8	1025.1	0.	322.
01:38-01:48	-20.8	1025.1	0.	320.
01:43-01:53	-21.0	1024.9	0.	335.
01:48-01:58	-21.1	1024.9	0.	334.
01:53-02:03	-20.9	1024.9	0.	329.
01:58-02:08	-20.5	1024.9	0.	332.
02:03-02:13	-20.3	1024.9	0.	329.
02:08-02:18	-20.1	1024.9	0.	317.
02:13-02:23	-20.0	1024.9	0.	302.
02:18-02:28	-20.1	1024.8	0.	334.
02:23-02:33	-19.5	1024.6	0.	338.
02:28-02:38	-18.7	1024.4	0.	338.
02:33-02:43	-18.5	1024.2	0.	337.
02:38-02:48	-18.8	1024.1	0.	350.
02:43-02:53	-18.9	1024.1	0.	358.
02:48-02:58	-18.9	1024.1	0.	337.
02:53-03:03	-19.0	1024.0	0.	319.
02:58-03:08	-19.3	1023.9	0.	283.
03:03-03:13	-19.6	1023.8	0.	245.
03:08-03:18	-19.6	1023.8	0.	211.
03:13-03:23	-19.4	1023.8	0.	199.
03:18-03:28	-19.2	1023.8	0.	197.
03:23-03:33	-18.9	1023.8	0.	218.
03:28-03:38	-18.5	1023.7	0.	297.
03:33-03:43	-17.9	1023.4	0.	356.
03:38-03:48	-17.4	1023.4	0.	359.
03:43-03:53	-17.3	1023.5	0.	17.
03:48-03:58	-16.7	1023.3	0.	32.
03:53-04:03	-16.0	1023.2	0.	33.
03:58-04:08	-16.2	1023.2	0.	41.
04:03-04:13	-16.6	1023.2	0.	17.
04:08-04:18	-16.8	1023.1	0.	17.
04:13-04:23	-16.7	1023.1	0.	27.
04:18-04:28	-16.0	1023.1	0.	42.
04:23-04:33	-16.0	1023.1	0.	348.
04:28-04:38	-17.0	1023.1	1.	358.
04:33-04:43	-17.3	1023.1	1.	12.
04:38-04:48	-16.8	1023.1	0.	16.
04:43-04:53	-17.0	1023.1	0.	20.
04:48-04:58	-17.5	1023.1	0.	299.
04:53-05:03	-17.8	1023.1	0.	59.
04:58-05:08	-17.5	1023.0	0.	58.
05:03-05:13	-17.3	1022.9	0.	40.
05:08-05:18	-17.5	1022.9	0.	28.
05:13-05:23	-17.8	1022.9	0.	28.
05:18-05:28	-17.9	1022.9	0.	44.

## BARRIE\_DERAIL : 0307

Time	Temp	Barom	Wind-Spd	Wind-Dir
05:23-05:33	-17.8	1022.8	0.	45.
05:28-05:38	-17.4	1022.7	0.	53.
05:33-05:43	-17.1	1022.5	0.	52.
05:38-05:48	-17.2	1022.3	2.	28.
05:43-05:53	-17.5	1022.2	4.	27.
05:48-05:58	-17.7	1022.1	4.	27.
05:53-06:03	-17.8	1022.1	3.	29.
05:58-06:08	-17.8	1022.1	2.	29.
06:03-06:13	-17.8	1022.0	2.	29.
06:08-06:18	-17.7	1021.9	2.	35.
06:13-06:23	-17.5	1021.8	3.	33.
06:18-06:28	-16.9	1021.8	2.	30.
06:23-06:33	-16.2	1021.8	1.	40.
06:28-06:38	-16.1	1021.5	2.	34.
06:33-06:43	-16.1	1021.3	2.	29.
06:38-06:48	-15.8	1021.2	3.	24.
06:43-06:53	-15.3	1021.2	3.	23.
06:48-06:58	-15.2	1021.1	3.	27.
06:53-07:03	-15.1	1021.1	4.	31.
06:58-07:08	-15.2	1021.1	5.	32.
07:03-07:13	-15.0	1021.0	5.	27.
07:08-07:18	-14.7	1020.9	5.	25.

BARRIE\_DERAIL : 0307

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-19.2	1024.8	-	-
Std. Dev.	2.0	2.1	-	-
Min Reading	-21.9	1020.9	.0	.4
Max Reading	-14.4	1027.9	5.9	359.9
Min Average	-21.6	1020.9	.0	12.3
Max Average	-14.7	1027.8	4.8	358.5
# Valid Rdg	641.	641.	641.	641.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
 nd Average is less than Min. Detectable Level  
 m One or more readings Missing  
 \* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
 Averaging Started at Nearest: .0 min

## BARRIE\_DERAIL : 0401

Start: 82/03/04 10:16      Scan: 60 sec  
 Average: 10.0 min      Report: 5.0 min  
 Loc: MTC yard on hwy #93 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
10:16-10:26	-7.8	1015.6	9.	126.
10:21-10:31	-7.7	1015.3	10.	120.
10:26-10:36	-7.7	1015.1	11.	119.
10:31-10:41	-7.7	1015.0	9.	110.
10:36-10:46	-7.6	1014.9	9.	106.
10:41-10:51	-7.5	1014.9	11.	119.
10:46-10:56	-7.5	1014.8	11.	120.
10:51-11:01	-7.3	1014.7	10.	119.
10:56-11:06	-7.3	1014.5	14.	123.
11:01-11:11	-7.4	1014.3	16.	122.
11:06-11:16	-7.4	1014.1	13.	115.
11:11-11:21	-7.2	1014.1	11.	115.
11:16-11:26	-7.1	1014.0	13.	123.
11:21-11:31	-7.1	1014.0	13.	127.
11:26-11:36	-7.1	1013.9	12.	125.
11:31-11:41	-7.0	1013.9	14.	123.
11:36-11:46	-7.1	1013.9	16.	129.
11:41-11:51	-7.3	1013.9	17.	129.
11:46-11:56	-7.7	1013.8	16.	131.
11:51-12:01	-8.1	1013.5	15.	128.
11:56-12:06	-8.4	1013.1	16.	119.
12:01-12:11	-8.8	1013.0	18.	118.
12:06-12:16	-9.1	1012.9	17.	120.
12:11-12:21	-9.2	1012.6	15.	120.
12:16-12:26	-9.0	1012.3	14.	111.
12:21-12:31	-8.9	1012.0	13.	108.
12:26-12:36	-8.7	1011.9	12.	108.
12:31-12:41	-8.3	1011.8	12.	106.
12:36-12:46	-8.1	1011.7	12.	103.
12:41-12:51	-7.9	1011.4	12.	102.
12:46-12:56	-7.8	1011.1	12.	108.
12:51-13:01	-7.6	1010.9	10.	110.
12:56-13:06	-7.4	1010.8	12.	113.
13:01-13:11	-7.3	1010.6	15.	113.
13:06-13:16	-7.1	1010.2	15.	116.
13:11-13:21	-7.0	1010.1	16.	123.
13:16-13:26	-6.9	1010.0	16.	121.
13:21-13:31	-6.8	1009.9	19.	118.
13:26-13:36	-6.9	1009.8	21.	120.
13:31-13:41	-6.9	1009.5	20.	118.
13:36-13:46	-6.8	1009.2	17.	116.
13:41-13:51	-6.8	1009.1	17.	118.
13:46-13:56	-6.9	1009.1	15.	114.
13:51-14:01	-7.1	1009.0	16.	112.
13:56-14:06	-7.4	1008.9	17.	116.
14:01-14:11	-7.6	1008.7	12.	118.
14:06-14:16	-7.6	1008.4	12.	116.
14:11-14:21	-7.7	1008.1	13.	114.
14:16-14:26	-7.7	1008.1	13.	115.
14:21-14:31	-7.7	1008.1	16.	115.
14:26-14:36	-7.7	1008.1	17.	111.

BARRIE\_DERAIL : 0401

Time	Temp	Barom	Wind-Spd	Wind-Dir
14:31-14:41	-7.7	1008.0	16.	111.
14:36-14:46	-7.5	1007.9	14.	118.
14:41-14:51	-7.4	1007.8	16.	118.
14:46-14:56	-7.4	1007.6	16.	114.
14:51-15:01	-7.5	1007.3	13.	113.
14:56-15:06	-7.5	1007.1	10.	112.
15:01-15:11	-7.4	1007.0	10.	111.
15:06-15:16	-7.5	1006.9	13.	109.
15:11-15:21	-7.7	1006.9	12.	105.
15:16-15:26	-7.8	1006.8	10.	105.
15:21-15:31	-7.9	1006.8	11.	113.
15:26-15:36	-7.8	1006.6	11.	117.
15:31-15:41	-7.8	1006.3	12.	113.
15:36-15:46	-7.8	1006.1	13.	107.
15:41-15:51	-7.8	1006.0	12.	104.
15:46-15:56	-7.9	1005.9	12.	99.
15:51-16:01	-7.9	1005.8	10.	89.
15:56-16:06	-8.0	1005.4	9.	89.
16:01-16:11	-8.0	1005.2	10.	94.
16:06-16:16	-8.1	1005.1	11.	89.
16:11-16:21	-8.1	1005.1	13.	93.
16:16-16:26	-8.1	1005.0	11.	104.
16:21-16:31	-8.0	1005.1	10.	107.
16:26-16:36	-8.0	1005.1	11.	102.
16:31-16:41	-7.9	1005.1	8.	99.
16:36-16:46	-7.9	1005.1	8.	103.
16:41-16:51	-7.9	1005.0	8.	108.
16:46-16:56	-7.8	1004.9	6.	107.
16:51-17:01	-7.7	1004.9	8.	97.
16:56-17:06	-7.7	1004.7	9.	102.
17:01-17:11	-7.6	1004.4	7.	105.
17:06-17:16	-7.6	1004.2	7.	98.
17:11-17:21	-7.5	1004.1	7.	101.
17:16-17:26	-7.5	1004.1	7.	100.
17:21-17:31	-7.6	1004.0	9.	99.
17:26-17:36	-7.6	1003.9	10.	101.
17:31-17:41	-7.5	1003.8	8.	102.
17:36-17:46	-7.4	1003.7	9.	98.
17:41-17:51	-7.3	1003.6	8.	98.
17:46-17:56	-7.2	1003.5	7.	106.
17:51-18:01	-7.2	1003.3	7.	103.
17:56-18:06	-7.1	1003.2	8.	102.
18:01-18:11	-7.1	1003.1	8.	106.
18:06-18:16	-7.0	1003.1	8.	102.
18:11-18:21	-7.0	1003.0	9.	96.
18:16-18:26	-7.0	1002.9	8.	93.
18:21-18:31	-6.9	1002.9	7.	91.
18:26-18:36	-6.9	1002.8	6.	91.
18:31-18:41	-6.8	1002.8	7.	91.
18:36-18:46	-6.8	1002.8	6.	99.
18:41-18:51	-6.7	1002.7	6.	98.
18:46-18:56	-6.7	1002.4	8.	87.
18:51-19:01	-6.6	1002.2	9.	88.
18:56-19:06	-6.6	1002.2	7.	95.
19:01-19:11	-6.5	1002.1	8.	87.

## BARFIE\_DERAIL : 0401

Time	Temp	Barom	Wind-Spd	Wind-Dir
19:06-19:16	-6.5	1002.1	7.	79.
19:11-19:21	-6.5	1002.0	5.	84.
19:16-19:26	-6.5	1001.9	5.	82.
19:21-19:31	-6.4	1001.8	3.	75.
19:26-19:36	-6.4	1001.6	3.	72.
19:31-19:41	-6.4	1001.4	6.	70.
19:36-19:46	-6.5	1001.2	7.	70.
19:41-19:51	-6.4	1001.2	7.	74.
19:46-19:56	-6.4	1001.1	6.	78.
19:51-20:01	-6.3	1001.1	4.	76.
19:56-20:06	-6.3	1001.1	3.	63.
20:01-20:11	-6.3	1001.1	4.	66.
20:06-20:16	-6.3	1001.1	2.	73.
20:11-20:21	-6.2	1001.0	2.	64.
20:16-20:26	-6.2	1000.9	4.	72.
20:21-20:31	-6.1	1000.8	4.	77.
20:26-20:36	-6.1	1000.5	4.	74.
20:31-20:41	-6.1	1000.2	4.	69.
20:36-20:46	-6.1	1000.1	4.	62.
20:41-20:51	-6.1	1000.1	4.	61.
20:46-20:56	-6.0	1000.0	3.	64.
20:51-21:01	-6.0	999.9	3.	62.
20:56-21:06	-6.0	999.8	4.	61.
21:01-21:11	-6.0	999.8	4.	66.
21:06-21:16	-6.0	999.6	4.	65.
21:11-21:21	-6.0	999.3	4.	63.
21:16-21:26	-6.0	999.2	5.	62.
21:21-21:31	-6.0	999.1	5.	57.
21:26-21:36	-5.9	999.1	7.	61.
21:31-21:41	-5.9	999.0	7.	58.
21:36-21:46	-5.9	998.9	6.	53.
21:41-21:51	-5.9	998.8	4.	53.
21:46-21:56	-5.8	998.8	3.	50.
21:51-22:01	-5.7	998.9	3.	48.
21:56-22:06	-5.7	998.8	4.	49.
22:01-22:11	-5.7	998.8	3.	50.
22:06-22:16	-5.6	998.7	2.	35.
22:11-22:21	-5.6	998.6	1.	18.
22:16-22:26	-5.7	998.4	2.	17.
22:21-22:31	-5.8	998.3	2.	23.
22:26-22:36	-5.8	998.3	2.	26.
22:31-22:41	-5.6	998.3	2.	6.
22:36-22:46	-5.5	998.2	3.	354.
22:41-22:51	-5.7	998.2	5.	355.
22:46-22:56	-5.9	998.2	6.	357.
22:51-23:01	-6.0	998.2	6.	357.
22:56-23:06	-6.0	998.2	7.	357.
23:01-23:11	-6.1	998.2	6.	359.
23:06-23:16	-6.1	998.2	6.	359.
23:11-23:21	-6.1	998.2	7.	358.
23:16-23:26	-6.1	998.2	8.	357.
23:21-23:31	-6.0	998.2	7.	357.
23:26-23:36	-5.9	998.2	7.	357.
23:31-23:41	-5.9	998.2	8.	355.
23:36-23:46	-5.8	998.4	7.	352.

BARRIE\_DERAIL : 0401

Time	Temp	Barom	Wind-Spd	Wind-Dir
23:41-23:51	-5.7	998.7	7.	349.
23:46-23:56	-5.6	998.7	8.	347.
23:51-00:01	-5.6	998.8	9.	348.
23:56-00:06	-5.7	998.8	9.	348.
82/03/05				
00:01-00:11	-5.9	998.8	9.	349.
00:06-00:16	-6.0	998.9	9.	352.
00:11-00:21	-6.6	998.9	9.	354.
00:16-00:26	-7.1	999.7	8.	353.
00:21-00:31	-6.5	999.7	8.	351.
00:26-00:36	-6.1	999.0	8.	349.
00:31-00:41	-6.2	999.0	10.	347.
00:36-00:46	-6.2	999.1	11.	345.
00:41-00:51	-6.2	999.1	12.	343.
00:46-00:56	-6.2	999.2	12.	341.

BARRIE\_DERAIL : 0401

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-6.9	1004.8	-	-
Std. Dev.	.9	5.4	-	-
Min Reading	-11.8	998.2	.1	.4
Max Reading	-5.2	1015.9	25.2	360.0
Min Average	-9.2	998.2	1.3	5.7
Max Average	-5.5	1015.6	21.3	359.2
# Valid Rdgs	882.	882.	882.	882.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
nd Average is less than Min. Detectable Level  
m One or more readings Missing  
\* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
Averaging Started at Nearest: .0 min

## BARRIE\_DERAIL : 0502

Start: 82/03/05 12:54      Scan: 60 sec  
 Average: 10.0 min      Report: 5.0 min  
 Loc: On Medonte conc #6 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
12:54-13:04	-2.5	1017.1	23.	263.
12:59-13:09	-2.3	1017.1	24.	262.
13:04-13:14	-2.1	1017.1	23.	264.
13:09-13:19	-2.1	1017.1	24.	269.
13:14-13:24	-2.4	1017.0	24.	276.
13:19-13:29	-2.3	1017.0	22.	280.
13:24-13:34	-1.6	1016.9	18.	278.
13:29-13:39	-1.4	1016.9	21.	274.
13:34-13:44	-1.9	1016.9	22.	275.
13:39-13:49	-1.9	1016.9	21.	270.
13:44-13:54	-1.8	1016.9	22.	267.
13:49-13:59	-1.7	1016.9	21.	270.
13:54-14:04	-1.5	1016.9	23.	273.
13:59-14:09	-1.7	1016.9	23.	273.
14:04-14:14	-2.3	1017.0	24.	279.
14:09-14:19	-2.6	1016.9	24.	287.
14:14-14:24	-2.6	1016.9	19.	288.
14:19-14:29	-2.4	1016.9	15.	283.
14:24-14:34	-2.3	1017.0	16.	282.
14:29-14:39	-2.5	1017.1	18.	283.
14:34-14:44	-2.6	1017.2	17.	284.
14:39-14:49	-2.4	1017.3	16.	281.
14:44-14:54	-2.3	1017.6	17.	279.
14:49-14:59	-2.5	1017.8	20.	282.
14:54-15:04	-2.6	1017.8	21.	283.
14:59-15:09	-2.6	1017.9	20.	279.
15:04-15:14	-2.6	1017.9	20.	278.
15:09-15:19	-2.5	1018.0	17.	278.
15:14-15:24	-2.4	1018.0	17.	274.
15:19-15:29	-2.1	1018.1	20.	268.
15:24-15:34	-1.8	1018.1	21.	266.
15:29-15:39	-1.9	1018.1	21.	267.
15:34-15:44	-2.1	1018.1	21.	271.
15:39-15:49	-2.0	1018.2	22.	266.
15:44-15:54	-2.1	1018.2	23.	264.

BARRIE\_DERAIL : 0502

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-2.2	1017.4	-	-
Std. Dev.	.4	.5	-	-
Min Reading	-2.8	1016.9	12.3	251.3
Max Reading	-1.1	1018.2	33.5	301.1
Min Average	-2.6	1016.9	15.4	262.3
Max Average	-1.4	1018.2	24.3	288.3
# Valid Rdgs	180.	180.	180.	180.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
nd Average is less than Min. Detectable Level  
m One or more readings Missing  
† Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
Averaging Started at Nearest: .0 min

Start: 82/03/05 18:22      Scan: 60 sec  
 Average: 10.0 min      Report: 5.0 min  
 Loc: MTC yard on hwy #93 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
18:22-18:32	-3.7	1019.8	5.	287.
18:27-18:37	-3.9	1019.8	4.	283.
18:32-18:42	-4.1	1019.9	3.	285.
18:37-18:47	-4.2	1019.8	3.	282.
18:42-18:52	-4.4	1019.9	4.	282.
18:47-18:57	-4.6	1019.9	4.	285.
18:52-19:02	-4.8	1019.9	4.	286.
18:57-19:07	-5.0	1019.9	3.	285.
19:02-19:12	-5.1	1020.0	3.	283.
19:07-19:17	-5.1	1020.1	3.	280.
19:12-19:22	-5.1	1020.1	4.	274.
19:17-19:27	-5.0	1020.2	6.	279.
19:22-19:32	-4.9	1020.2	5.	283.
19:27-19:37	-4.8	1020.2	2.	283.
19:32-19:42	-4.9	1020.1	0.	282.
19:37-19:47	-5.0	1020.1	0.	288.
19:42-19:52	-5.3	1020.1	0.	283.
19:47-19:57	-5.5	1020.1	0.	283.
19:52-20:02	-5.7	1020.1	0.	286.
19:57-20:07	-5.8	1020.1	0.	283.
20:02-20:12	-5.8	1020.1	0.	254.
20:07-20:17	-5.8	1020.1	0.	251.
20:12-20:22	-6.0	1020.1	0.	249.
20:17-20:27	-6.1	1020.2	0.	255.
20:22-20:32	-6.3	1020.2	1.	265.
20:27-20:37	-6.3	1020.2	1.	271.
20:32-20:42	-6.3	1020.2	2.	284.
20:37-20:47	-5.9	1020.2	2.	292.
20:42-20:52	-5.7	1020.2	1.	293.
20:47-20:57	-5.6	1020.5	0.	294.
20:52-21:02	-5.8	1020.8	0.	281.
20:57-21:07	-6.2	1020.8	1.	269.
21:02-21:12	-6.6	1020.8	1.	265.
21:07-21:17	-7.1	1020.9	0.	238.
21:12-21:22	-7.5	1020.9	1.	201.
21:17-21:27	-7.9	1020.9	1.	200.
21:22-21:32	-7.9	1020.9	1.	211.
21:27-21:37	-7.5	1020.9	1.	211.
21:32-21:42	-7.4	1020.9	1.	209.
21:37-21:47	-7.7	1020.9	1.	213.
21:42-21:52	-8.2	1020.9	1.	218.
21:47-21:57	-8.8	1021.0	1.	216.
21:52-22:02	-9.3	1021.1	1.	209.
21:57-22:07	-9.7	1021.1	1.	196.
22:02-22:12	-10.0	1021.1	1.	196.
22:07-22:17	-9.9	1021.1	1.	201.
22:12-22:22	-9.7	1021.1	1.	214.
22:17-22:27	-9.4	1021.4	2.	215.
22:22-22:32	-9.1	1021.8	2.	211.
22:27-22:37	-8.8	1021.8	1.	209.
22:32-22:42	-8.7	1021.8	1.	208.

## BARRIE\_DERAIL : 0503

Time	Temp	Barom	Wind-Spd	Wind-Dir
22:37-22:47	-8.5	1021.9	2.	213.
22:42-22:52	-8.3	1021.9	2.	213.
22:47-22:57	-8.2	1021.9	1.	209.
22:52-23:02	-8.2	1021.9	0.	210.
22:57-23:07	-8.0	1021.9	1.	207.
23:02-23:12	-8.0	1021.9	1.	202.
23:07-23:17	-8.0	1021.9	1.	214.
23:12-23:22	-8.0	1022.0	2.	224.
23:17-23:27	-7.9	1021.9	3.	220.
23:22-23:32	-7.9	1021.9	2.	218.
23:27-23:37	-7.9	1021.9	1.	207.
23:32-23:42	-8.1	1021.9	3.	197.
23:37-23:47	-8.6	1021.9	2.	198.
23:42-23:52	-9.4	1022.0	1.	213.
23:47-23:57	-10.1	1022.1	2.	217.
23:52-00:02	-10.5	1022.1	2.	217.
23:57-00:07	-10.7	1022.2	1.	217.
82/03/06				
00:02-00:12	-11.0	1022.2	0.	216.
00:07-00:17	-11.4	1022.2	0.	217.
00:12-00:22	-11.7	1022.4	1.	209.
00:17-00:27	-11.9	1022.7	1.	203.
00:22-00:32	-11.9	1022.8	1.	203.
00:27-00:37	-11.7	1022.8	1.	209.
00:32-00:42	-11.7	1022.8	0.	219.
00:37-00:47	-11.8	1022.8	0.	217.
00:42-00:52	-12.1	1022.8	0.	215.
00:47-00:57	-12.4	1022.8	0.	213.
00:52-01:02	-12.7	1022.8	0.	213.
00:57-01:07	-13.1	1022.8	0.	214.
01:02-01:12	-13.4	1022.9	1.	213.
01:07-01:17	-13.6	1022.9	1.	213.
01:12-01:22	-13.8	1022.9	0.	215.
01:17-01:27	-13.9	1022.9	0.	217.
01:22-01:32	-14.1	1022.9	0.	217.
01:27-01:37	-14.4	1022.9	0.	217.
01:32-01:42	-14.6	1022.9	0.	222.
01:37-01:47	-14.6	1022.9	0.	217.
01:42-01:52	-14.6	1022.9	0.	217.
01:47-01:57	-14.8	1022.9	0.	215.
01:52-02:02	-15.1	1022.9	0.	215.
01:57-02:07	-15.3	1022.9	0.	214.
02:02-02:12	-15.4	1022.9	0.	213.
02:07-02:17	-15.6	1022.9	0.	210.
02:12-02:22	-15.9	1022.9	0.	209.
02:17-02:27	-16.1	1022.9	0.	210.
02:22-02:32	-16.4	1022.9	0.	210.
02:27-02:37	-16.4	1022.6	0.	210.
02:32-02:42	-16.5	1022.3	0.	210.
02:37-02:47	-16.7	1022.2	0.	210.
02:42-02:52	-16.9	1022.1	0.	210.
02:47-02:57	-17.0	1022.1	0.	213.
02:52-03:02	-17.1	1022.1	0.	266.
02:57-03:07	-17.1	1022.0	0.	320.
03:02-03:12	-17.1	1021.8	0.	325.

BARRIE\_DERAIL : 0503

Time	Temp	Barom	Wind-Spd	Wind-Dir
03:07-03:17	-17.2	1021.8	0.	326.
03:12-03:22	-17.3	1021.8	0.	326.
03:17-03:27	-17.5	1021.8	0.	327.
03:22-03:32	-17.7	1021.8	0.	327.
03:27-03:37	-17.8	1021.8	0.	326.
03:32-03:42	-17.7	1021.8	0.	303.
03:37-03:47	-17.9	1021.8	0.	267.
03:42-03:52	-18.2	1021.8	0.	253.
03:47-03:57	-18.5	1021.8	0.	244.
03:52-04:02	-18.7	1021.9	0.	226.
03:57-04:07	-18.5	1021.9	0.	221.
04:02-04:12	-18.5	1021.8	0.	220.
04:07-04:17	-18.6	1021.8	0.	219.
04:12-04:22	-18.8	1021.8	0.	218.
04:17-04:27	-18.8	1021.8	0.	221.
04:22-04:32	-18.9	1021.8	0.	224.
04:27-04:37	-19.0	1021.8	0.	225.
04:32-04:42	-19.0	1021.8	0.	225.
04:37-04:47	-19.1	1021.6	0.	226.
04:42-04:52	-19.1	1021.3	0.	236.
04:47-04:57	-19.3	1021.2	0.	247.
04:52-05:02	-19.4	1021.1	0.	250.
04:57-05:07	-19.4	1021.1	0.	251.
05:02-05:12	-19.3	1021.2	0.	251.
05:07-05:17	-19.3	1021.2	0.	251.
05:12-05:22	-19.5	1021.2	0.	251.
05:17-05:27	-19.7	1021.2	0.	251.
05:22-05:32	-19.8	1021.3	0.	251.
05:27-05:37	-19.9	1021.5	0.	243.
05:32-05:42	-20.1	1021.7	0.	214.
05:37-05:47	-20.2	1021.8	0.	199.
05:42-05:52	-20.3	1021.8	0.	194.
05:47-05:57	-20.4	1021.8	0.	194.
05:52-06:02	-20.4	1021.8	0.	198.
05:57-06:07	-20.3	1021.8	0.	200.
06:02-06:12	-20.1	1021.8	0.	201.
06:07-06:17	-20.1	1021.8	0.	207.
06:12-06:22	-20.3	1021.8	0.	219.
06:17-06:27	-20.3	1021.7	0.	223.
06:22-06:32	-20.4	1021.4	0.	255.
06:27-06:37	-20.4	1021.2	0.	296.
06:32-06:42	-20.3	1021.3	0.	292.
06:37-06:47	-20.3	1021.2	0.	275.
06:42-06:52	-20.5	1021.4	0.	264.
06:47-06:57	-20.7	1021.7	0.	263.
06:52-07:02	-20.7	1021.8	0.	263.
06:57-07:07	-20.5	1021.8	0.	262.
07:02-07:12	-20.4	1021.8	0.	262.
07:07-07:17	-20.3	1021.8	0.	261.
07:12-07:22	-20.3	1021.8	0.	262.
07:17-07:27	-20.3	1021.8	0.	262.
07:22-07:32	-20.1	1021.9	0.	239.
07:27-07:37	-19.8	1021.9	0.	213.
07:32-07:42	-19.4	1021.8	1.	202.
07:37-07:47	-19.0	1021.8	2.	200.

## BARRIE\_DERAIL : 0503

Time	Temp	Barom	Wind-Spd	Wind-Dir
07:42-07:52	-18.7	1021.8	2.	199.
07:47-07:57	-18.2	1021.8	2.	199.
07:52-08:02	-17.1	1021.8	3.	196.
07:57-08:07	-15.6	1021.8	4.	195.
08:02-08:12	-13.9	1021.8	4.	197.
08:07-08:17	-12.1	1021.8	3.	198.
08:12-08:22	-10.3	1021.8	2.	196.
08:17-08:27	-8.9	1021.8	3.	198.
08:22-08:32	-8.1	1021.8	2.	201.
08:27-08:37	-7.5	1021.8	2.	204.
08:32-08:42	-6.8	1021.8	2.	206.
08:37-08:47	-6.1	1021.8	2.	207.
08:42-08:52	-5.5	1021.8	2.	205.
08:47-08:57	-5.0	1021.8	3.	205.
08:52-09:02	-4.7	1021.8	2.	209.
08:57-09:07	-4.3	1021.6	2.	207.
09:02-09:12	-3.8	1021.3	2.	208.
09:07-09:17	-3.6	1021.2	3.	207.
09:12-09:22	-3.3	1021.2	2.	204.
09:17-09:27	-2.8	1021.2	3.	183.
09:22-09:32	-2.5	1021.2	5.	178.
09:27-09:37	-2.7	1021.2	6.	178.
09:32-09:42	-2.6	1021.1	6.	181.

BARRIE\_DERAIL : 0503

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-12.3	1021.5	-	-
Std. Dev.	5.9	.9	-	-
Min Reading	-20.8	1019.5	.0	157.7
Max Reading	-2.2	1023.0	12.1	326.7
Min Average	-20.7	1019.8	.0	178.2
Max Average	-2.5	1022.9	6.1	326.6
# Valid Rdgs	922.	922.	922.	922.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
 nd Average is less than Min. Detectable Level  
 m One or more readings Missing  
 \$ Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
 Averaging Started at Nearest: .0 min

BARRIE\_DERAIL : 0601

Start: 82/03/06 11:23      Scan: 60 sec  
Average: 10.0 min      Report: 5.0 min  
Loc: MTC yard on hwy #93 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
11:23-11:33	1.1	1020.2	18.	194.

BARRIE\_DERAIL : 0601

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	.9	1020.2	-	-
Std. Dev.	.5	.0	-	-
Min Reading	.3	1020.1	14.3	177.1
Max Reading	1.6	1020.2	22.6	207.9
Min Average	1.1	1020.2	18.3	194.0
Max Average	1.1	1020.2	18.3	194.0
# Valid Rdgs	14.	14.	14.	14.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
 nd Average is less than Min. Detectable Level  
 m One or more readings Missing  
 \* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
 Averaging Started at Nearest: .0 min

Start: 82/03/06 11:42 Scan: 60 sec  
 Average: 10.0 min Report: 5.0 min  
 Loc: On Medonte conc #6 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
11:42-11:52	.5	1020.1	14.	178.
11:47-11:57	.8	1020.1	12.	181.
11:52-12:02	1.0	1020.0	12.	190.
11:57-12:07	1.4	1019.9	12.	192.
12:02-12:12	1.4	1019.9	14.	176.
12:07-12:17	.9	1019.9	16.	168.
12:12-12:22	.7	1019.9	16.	171.
12:17-12:27	.6	1019.9	16.	171.
12:22-12:32	.7	1019.9	16.	175.
12:27-12:37	.8	1019.8	14.	181.
12:32-12:42	.9	1019.5	13.	181.
12:37-12:47	.7	1019.3	14.	180.
12:42-12:52	.6	1019.3	15.	183.
12:47-12:57	.8	1019.1	14.	186.
12:52-13:02	1.2	1018.7	14.	191.
12:57-13:07	1.4	1018.5	13.	193.
13:02-13:12	1.4	1018.5	11.	193.
13:07-13:17	1.5	1018.6	12.	200.
13:12-13:22	1.8	1018.7	12.	207.
13:17-13:27	1.9	1018.6	14.	219.
13:22-13:32	1.8	1018.6	16.	228.
13:27-13:37	1.8	1018.8	15.	224.
13:32-13:42	1.9	1018.8	14.	217.
13:37-13:47	1.9	1018.8	14.	219.
13:42-13:52	1.8	1018.8	15.	218.
13:47-13:57	1.8	1018.9	16.	207.
13:52-14:02	1.5	1018.6	14.	195.
13:57-14:07	1.4	1018.5	12.	203.
14:02-14:12	1.8	1018.4	13.	216.
14:07-14:17	2.1	1018.2	11.	218.
14:12-14:22	2.3	1018.2	9.	212.
14:17-14:27	2.3	1018.2	10.	200.
14:22-14:32	2.1	1018.2	12.	188.
14:27-14:37	2.2	1018.1	11.	189.
14:32-14:42	2.4	1018.1	13.	211.
14:37-14:47	2.6	1018.1	13.	207.
14:42-14:52	2.6	1018.1	12.	191.
14:47-14:57	2.4	1018.0	10.	183.
14:52-15:02	2.5	1018.0	9.	188.
14:57-15:07	3.2	1017.9	10.	200.
15:02-15:12	3.2	1017.9	11.	198.
15:07-15:17	2.6	1017.9	10.	188.
15:12-15:22	2.3	1017.9	9.	185.
15:17-15:27	2.5	1017.8	9.	193.
15:22-15:32	2.7	1017.8	9.	199.
15:27-15:37	2.9	1017.6	8.	185.
15:32-15:42	2.7	1017.2	8.	172.
15:37-15:47	2.2	1017.1	9.	170.
15:42-15:52	1.8	1017.0	10.	161.
15:47-15:57	1.5	1016.9	10.	156.
15:52-16:02	1.4	1016.9	9.	162.

BARRIE\_DERAIL : 0602

Time	Temp	Barom	Wind-Spd	Wind-Dir
15:57-16:07	1.4	1016.8	8.	161.
16:02-16:12	1.3	1016.4	8.	160.
16:07-16:17	1.2	1016.2	6.	165.
16:12-16:22	1.2	1016.2	6.	153.
16:17-16:27	1.2	1016.2	7.	148.
16:22-16:32	1.1	1016.5	9.	151.
16:27-16:37	.9	1016.6	10.	160.
16:32-16:42	.6	1016.3	9.	170.
16:37-16:47	.5	1016.1	7.	176.
16:42-16:52	.4	1016.0	6.	181.
16:47-16:57	.3	1016.0	9.	167.
16:52-17:02	-.0	1016.1	12.	157.
16:57-17:07	-.4	1015.9	12.	155.

## BARRIE\_DERAIL : 0602

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	1.5	1018.1	-	-
Std. Dev.	.9	1.3	-	-
Min Reading	-.9	1015.8	2.8	136.1
Max Reading	3.8	1020.2	20.9	237.0
Min Average	-.4	1015.9	5.9	148.2
Max Average	3.2	1020.1	16.4	227.9
# Valid Rdgs	327.	327.	327.	327.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
 nd Average is less than Min. Detectable Level  
 m One or more readings Missing  
 t Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
 Averaging Started at Nearest: .0 min

Start: 02/03/06 17:53      Scan: 60 sec  
 Average: 10.0 min      Report: 5.0 min  
 Loc: On Medonte conc #6 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
17:53-18:03	-1.3	1015.1	4.	164.
17:58-18:08	-1.2	1015.0	6.	149.
18:03-18:13	-1.1	1014.9	8.	147.
18:08-18:18	-1.1	1015.0	8.	147.
18:13-18:23	-1.2	1015.0	7.	152.
18:18-18:28	-1.3	1015.0	7.	166.
18:23-18:33	-1.4	1015.0	8.	167.
18:28-18:38	-1.4	1015.1	5.	159.
18:33-18:43	-1.4	1015.1	4.	155.
18:38-18:48	-1.4	1015.1	4.	161.
18:43-18:53	-1.4	1015.1	4.	156.
18:48-18:58	-1.3	1015.1	4.	147.
18:53-19:03	-1.3	1015.1	5.	153.
18:58-19:08	-1.3	1015.1	3.	165.
19:03-19:13	-1.3	1015.1	3.	178.
19:08-19:18	-1.5	1015.1	5.	177.
19:13-19:23	-1.6	1015.1	5.	177.
19:18-19:28	-1.7	1015.1	4.	184.
19:23-19:33	-1.7	1015.1	2.	183.
19:28-19:38	-1.7	1015.1	2.	166.
19:33-19:43	-1.8	1015.2	3.	184.
19:38-19:48	-1.8	1015.1	3.	197.
19:43-19:53	-1.9	1015.1	3.	188.
19:48-19:58	-1.9	1015.1	3.	187.
19:53-20:03	-2.0	1015.4	3.	203.
19:58-20:08	-1.9	1015.7	3.	207.
20:03-20:13	-2.0	1015.7	2.	191.
20:08-20:18	-2.2	1015.5	1.	173.
20:13-20:23	-2.3	1015.3	1.	170.
20:18-20:28	-2.3	1015.4	0.	203.
20:23-20:33	-2.1	1015.7	0.	209.
20:28-20:38	-2.1	1015.5	0.	217.
20:33-20:43	-2.0	1015.2	0.	214.
20:38-20:48	-1.8	1015.2	0.	215.
20:43-20:53	-1.7	1015.2	0.	202.
20:48-20:58	-1.4	1015.1	0.	152.
20:53-21:03	-1.4	1015.1	0.	137.
20:58-21:08	-1.7	1015.1	0.	209.
21:03-21:13	-2.0	1015.1	0.	302.
21:08-21:18	-2.2	1015.1	0.	294.
21:13-21:23	-2.2	1015.1	0.	277.
21:18-21:28	-2.1	1015.1	0.	230.
21:23-21:33	-1.9	1015.1	1.	230.
21:28-21:38	-1.9	1015.1	0.	230.
21:33-21:43	-2.0	1015.1	0.	239.
21:38-21:48	-2.0	1015.1	0.	234.
21:43-21:53	-2.0	1015.1	0.	221.
21:48-21:58	-2.0	1015.1	1.	220.
21:53-22:03	-1.9	1015.0	1.	226.
21:58-22:08	-1.8	1014.9	0.	232.
22:03-22:13	-1.8	1014.9	0.	230.

BARRIE\_DERAIL : 0603

Time	Temp	Barom	Wind-Spd	Wind-Dir
22:08-22:18	-1.8	1014.9	0.	233.
22:13-22:23	-1.7	1014.9	0.	239.
22:18-22:28	-1.8	1014.9	0.	240.
22:23-22:33	-2.0	1014.9	0.	246.
22:28-22:38	-2.3	1014.8	0.	264.
22:33-22:43	-2.7	1014.6	0.	285.
22:38-22:48	-2.8	1014.4	0.	300.
22:43-22:53	-2.8	1014.4	0.	312.
22:48-22:58	-2.8	1014.4	0.	312.
22:53-23:03	-3.0	1014.3	0.	312.
22:58-23:08	-2.9	1014.1	0.	311.
23:03-23:13	-2.9	1014.1	0.	311.
23:08-23:18	-2.9	1014.1	0.	311.
23:13-23:23	-3.3	1013.8	0.	312.
23:18-23:28	-2.6	1013.8	0.	316.
23:23-23:33	-1.1	1014.0	0.	320.
23:28-23:38	-.5	1013.9	0.	320.
23:33-23:43	-.7	1013.9	0.	303.
23:38-23:48	-1.2	1013.9	0.	287.
23:43-23:53	-.7	1013.9	0.	291.
23:48-23:58	-.5	1013.9	0.	296.
23:53-00:03	-1.6	1013.9	0.	297.
23:58-00:08	-2.3	1014.0	0.	295.
00/03/07				
00:03-00:13	-2.4	1014.0	0.	285.
00:08-00:18	-2.3	1014.1	0.	273.
00:13-00:23	-2.2	1014.0	0.	262.
00:18-00:28	-1.7	1014.0	0.	253.
00:23-00:33	-1.6	1014.0	0.	251.
00:28-00:38	-1.8	1013.9	0.	248.
00:33-00:43	-2.1	1013.9	0.	238.
00:38-00:48	-2.5	1014.0	0.	229.
00:43-00:53	-2.6	1014.0	0.	227.
00:48-00:58	-2.7	1013.9	0.	225.
00:53-01:03	-2.9	1013.9	0.	221.
00:58-01:08	-2.8	1013.9	0.	213.
01:03-01:13	-2.7	1013.9	0.	206.
01:08-01:18	-2.8	1013.8	0.	204.
01:13-01:23	-2.7	1013.8	0.	204.
01:18-01:28	-2.3	1013.8	0.	208.
01:23-01:33	-2.1	1013.8	0.	213.
01:28-01:38	-2.3	1013.8	0.	215.
01:33-01:43	-2.6	1013.7	0.	215.
01:38-01:48	-2.7	1013.4	0.	215.
01:43-01:53	-2.8	1013.3	0.	215.
01:48-01:58	-2.8	1013.4	0.	215.
01:53-02:03	-2.8	1013.3	0.	216.
01:58-02:08	-2.9	1013.2	0.	216.
02:03-02:13	-3.1	1013.2	0.	216.
02:08-02:18	-3.2	1013.2	0.	216.
02:13-02:23	-3.2	1013.1	0.	216.
02:18-02:28	-3.2	1013.1	0.	218.
02:23-02:33	-3.4	1013.1	0.	232.
02:28-02:38	-3.5	1013.0	0.	256.
02:33-02:43	-3.6	1012.9	0.	264.

## BARRIE\_DERAIL : 0603

Time	Temp	Barom	Wind-Spd	Wind-Dir
02:38-02:48	-3.5	1012.9	0.	256.
02:43-02:53	-3.3	1012.8	0.	247.
02:48-02:58	-3.4	1012.8	0.	239.
02:53-03:03	-3.7	1012.8	0.	230.
02:58-03:08	-3.8	1012.8	0.	224.
03:03-03:13	-3.8	1012.5	0.	221.
03:08-03:18	-3.9	1012.2	0.	221.
03:13-03:23	-4.1	1012.2	0.	223.
03:18-03:28	-4.7	1012.2	0.	226.
03:23-03:33	-4.9	1012.1	0.	228.
03:28-03:38	-5.0	1012.1	0.	237.
03:33-03:43	-5.0	1012.1	0.	248.
03:38-03:48	-4.9	1012.1	0.	251.
03:43-03:53	-4.6	1012.1	0.	249.
03:48-03:58	-4.2	1012.1	0.	246.
03:53-04:03	-3.9	1012.1	0.	246.
03:58-04:08	-3.9	1012.1	0.	249.
04:03-04:13	-3.8	1012.2	0.	253.
04:08-04:18	-3.7	1012.4	0.	256.
04:13-04:23	-3.8	1012.6	0.	255.
04:18-04:28	-3.6	1012.7	0.	253.
04:23-04:33	-3.4	1012.8	0.	249.
04:28-04:38	-2.9	1012.8	0.	249.
04:33-04:43	-2.4	1012.9	0.	258.
04:38-04:48	-2.4	1012.9	0.	262.
04:43-04:53	-2.5	1012.9	0.	261.
04:48-04:58	-2.0	1012.9	0.	261.
04:53-05:03	-1.5	1012.9	0.	263.
04:58-05:08	-1.3	1012.8	1.	268.
05:03-05:13	-1.3	1012.8	3.	264.
05:08-05:18	-1.2	1012.8	4.	264.
05:13-05:23	-1.4	1012.6	3.	265.
05:18-05:28	-1.5	1012.6	1.	262.
05:23-05:33	-1.7	1012.8	0.	258.
05:28-05:38	-1.9	1012.8	0.	231.
05:33-05:43	-2.2	1012.8	1.	171.
05:38-05:48	-2.7	1012.7	2.	171.
05:43-05:53	-3.2	1012.6	2.	173.
05:48-05:58	-3.4	1012.7	2.	179.
05:53-06:03	-3.3	1012.8	1.	186.
05:58-06:08	-3.3	1012.5	0.	195.
06:03-06:13	-3.5	1012.4	0.	194.
06:08-06:18	-3.7	1012.7	1.	203.
06:13-06:23	-3.7	1012.8	1.	199.
06:18-06:28	-3.7	1012.7	1.	178.
06:23-06:33	-3.7	1012.4	2.	176.
06:28-06:38	-3.7	1012.2	2.	186.
06:33-06:43	-3.7	1012.2	1.	197.
06:38-06:48	-3.5	1012.2	0.	200.
06:43-06:53	-3.4	1012.3	0.	205.
06:48-06:58	-3.2	1012.5	0.	237.
06:53-07:03	-3.1	1012.8	0.	237.
06:58-07:08	-3.1	1012.8	1.	243.
07:03-07:13	-3.0	1012.9	1.	246.
07:08-07:18	-2.8	1012.9	1.	241.

## BARRIE\_DERAIL : 0603

Time	Temp	Barom	Wind-Spd	Wind-Dir
07:13-07:23	-2.6	1012.9	1.	239.
07:18-07:28	-2.6	1012.9	1.	231.
07:23-07:33	-2.4	1012.9	1.	231.
07:28-07:38	-2.5	1012.9	0.	227.
07:33-07:43	-2.8	1012.9	0.	232.
07:38-07:48	-2.8	1012.9	0.	255.
07:43-07:53	-2.7	1012.9	0.	227.
07:48-07:58	-2.8	1013.0	0.	170.
07:53-08:03	-2.9	1013.0	0.	178.
07:58-08:08	-2.6	1013.0	1.	213.
08:03-08:13	-1.7	1013.0	1.	226.
08:08-08:18	-.8	1013.0	1.	252.
08:13-08:23	-.5	1013.1	2.	264.
08:18-08:28	-.8	1013.1	4.	263.
08:23-08:33	-.6	1013.1	6.	260.
08:28-08:38	-.3	1013.1	6.	265.
08:33-08:43	-.4	1013.2	6.	268.
08:38-08:48	-.5	1013.2	6.	271.
08:43-08:53	-.6	1013.1	6.	272.
08:48-08:58	-.8	1013.1	6.	268.
08:53-09:03	-.7	1013.1	7.	263.
08:58-09:08	-.8	1013.1	5.	264.
09:03-09:13	-1.0	1013.1	4.	274.
09:08-09:18	-1.0	1013.0	4.	273.
09:13-09:23	-.9	1013.0	3.	273.
09:18-09:28	-.8	1013.0	4.	275.
09:23-09:33	-.6	1013.0	5.	275.
09:28-09:38	-.8	1013.1	5.	274.
09:33-09:43	-.8	1013.1	6.	272.
09:38-09:48	-.5	1013.1	9.	276.
09:43-09:53	-.8	1013.1	10.	287.
09:48-09:58	-1.2	1013.2	9.	287.
09:53-10:03	-1.1	1013.2	10.	284.
09:58-10:08	-1.4	1013.3	13.	284.
10:03-10:13	-1.6	1013.3	13.	282.
10:08-10:18	-1.9	1013.2	19.	289.
10:13-10:23	-2.3	1013.1	21.	296.
10:18-10:28	-2.6	1013.1	18.	306.
10:23-10:33	-2.6	1013.1	18.	312.
10:28-10:38	-2.6	1013.1	19.	314.
10:33-10:43	-2.6	1013.1	18.	312.
10:38-10:48	-2.5	1013.1	19.	310.
10:43-10:53	-2.4	1013.1	16.	305.
10:48-10:58	-2.4	1013.1	15.	296.
10:53-11:03	-2.4	1013.2	17.	297.
10:58-11:08	-2.6	1013.2	18.	298.
11:03-11:13	-2.7	1013.2	17.	297.
11:08-11:18	-2.5	1013.1	15.	301.
11:13-11:23	-2.3	1013.0	15.	302.
11:18-11:28	-2.3	1013.1	16.	302.
11:23-11:33	-2.4	1013.0	15.	304.
11:28-11:38	-2.5	1012.9	16.	301.
11:33-11:43	-2.6	1012.9	16.	304.
11:38-11:48	-2.5	1012.8	16.	315.
11:43-11:53	-2.5	1012.8	17.	324.

## BARRIE\_DERAIL : 0603

Time	Temp	Barow	Wind-Spd	Wind-Dir
11:48-11:58	-2.7	1012.8	18.	329.
11:53-12:03	-2.8	1012.8	17.	327.
11:58-12:08	-2.6	1012.9	15.	317.
12:03-12:13	-2.3	1012.9	13.	312.
12:08-12:18	-2.3	1012.9	13.	320.
12:13-12:23	-2.6	1012.9	14.	330.
12:18-12:28	-2.9	1013.0	14.	337.
12:23-12:33	-2.9	1013.1	14.	337.
12:28-12:38	-2.7	1013.1	13.	326.
12:33-12:43	-2.6	1013.1	12.	322.
12:38-12:48	-2.6	1013.1	14.	327.
12:43-12:53	-2.7	1013.1	17.	326.
12:48-12:58	-2.6	1013.1	17.	323.
12:53-13:03	-2.5	1013.1	16.	320.
12:58-13:08	-2.4	1013.1	17.	322.
13:03-13:13	-2.6	1013.1	17.	327.
13:08-13:18	-2.5	1013.1	14.	326.
13:13-13:23	-2.0	1013.1	13.	306.
13:18-13:28	-1.7	1013.1	14.	304.
13:23-13:33	-1.9	1013.1	13.	314.
13:28-13:38	-1.8	1013.0	12.	319.
13:33-13:43	-1.8	1012.9	13.	329.
13:38-13:48	-2.1	1012.9	14.	332.
13:43-13:53	-1.7	1012.8	14.	321.
13:48-13:58	-1.4	1012.8	14.	315.
13:53-14:03	-1.3	1012.8	17.	316.
13:58-14:08	-1.4	1012.8	18.	317.

BARRIE\_DERAIL : 0603

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-2.3	1013.6	-	-
Std. Dev.	1.0	1.0	-	-
Min Reading	-5.8	1011.3	.0	93.8
Max Reading	.4	1015.8	34.3	351.3
Min Average	-5.0	1012.1	.0	137.0
Max Average	-.3	1015.7	21.3	337.3
# Valid Rdg	1219.	1219.	1219.	1219.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
 nd Average is less than Min. Detectable Level  
 m One or more readings Missing  
 \* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
 Averaging Started at Nearest: .0 min

Start: 82/03/07 14:45 Scan: 60 sec  
 Average: 10.0 min Report: 5.0 min  
 Loc: MTC yard on hwy #93 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
14:45-14:55	-.8	1011.8	17.	315.
14:50-15:00	-.8	1011.9	21.	300.
14:55-15:05	-.8	1011.9	21.	301.
15:00-15:10	-.8	1011.9	20.	303.
15:05-15:15	-.8	1011.9	23.	301.
15:10-15:20	-.9	1011.9	26.	306.
15:15-15:25	-1.2	1011.9	25.	309.
15:20-15:30	-1.4	1011.9	26.	317.
15:25-15:35	-1.5	1011.9	25.	323.
15:30-15:40	-1.5	1011.9	23.	319.
15:35-15:45	-1.4	1011.9	21.	316.
15:40-15:50	-1.2	1011.9	18.	308.
15:45-15:55	-.9	1011.9	19.	304.
15:50-16:00	-.8	1012.0	19.	298.
15:55-16:05	-1.1	1012.1	17.	308.
16:00-16:10	-1.5	1012.1	21.	325.
16:05-16:15	-2.0	1012.1	24.	326.
16:10-16:20	-2.3	1012.1	21.	326.
16:15-16:25	-2.5	1012.3	20.	324.
16:20-16:30	-2.8	1012.6	19.	317.
16:25-16:35	-2.9	1012.8	20.	320.
16:30-16:40	-3.1	1012.8	21.	325.
16:35-16:45	-3.4	1012.9	22.	327.
16:40-16:50	-3.5	1012.9	20.	322.
16:45-16:55	-3.6	1012.9	17.	319.
16:50-17:00	-3.7	1012.9	14.	323.
16:55-17:05	-3.7	1012.9	15.	327.
17:00-17:10	-3.8	1013.0	20.	328.
17:05-17:15	-4.0	1013.1	22.	327.
17:10-17:20	-4.1	1013.1	18.	326.
17:15-17:25	-4.4	1013.1	19.	323.
17:20-17:30	-4.5	1013.1	22.	321.
17:25-17:35	-4.5	1013.2	19.	321.
17:30-17:40	-4.5	1013.2	17.	321.
17:35-17:45	-4.6	1013.2	18.	319.
17:40-17:50	-4.6	1013.4	19.	316.
17:45-17:55	-4.8	1013.6	21.	317.

BARRIE\_DERAIL : 0701

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-2.6	1012.5	-	-
Std. Dev.	1.5	.6	-	-
Min Reading	-5.1	1011.6	9.3	284.9
Max Reading	-.5	1013.8	31.2	352.2
Min Average	-4.8	1011.8	14.3	298.4
Max Average	-.8	1013.6	26.3	327.7
# Valid Rdgs	190.	190.	190.	190.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
 nd Average is less than Min. Detectable Level  
 @ One or more readings Missing  
 \* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
 Averaging Started at Nearest: .0 min

Start: 82/03/07 17:58 Scan: 60 sec  
 Average: 10.0 min Report: 5.0 min  
 Loc: MTC yard on hwy #93 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
17:58-18:06	-5.3	1013.8	16.	317.
18:03-18:13	-5.5	1013.8	15.	315.
18:08-18:18	-5.6	1013.8	14.	315.
18:13-18:23	-5.8	1013.8	14.	315.
18:18-18:28	-5.9	1013.8	16.	316.
18:23-18:33	-6.0	1013.9	19.	315.
18:28-18:38	-6.1	1013.9	19.	313.
18:33-18:43	-6.2	1013.9	19.	315.
18:38-18:48	-6.4	1014.0	19.	315.
18:43-18:53	-6.4	1014.1	19.	314.
18:48-18:58	-6.6	1014.1	19.	316.
18:53-19:03	-6.8	1014.2	18.	316.
18:58-19:08	-6.8	1014.4	19.	316.
19:03-19:13	-6.9	1014.7	20.	316.
19:08-19:18	-7.1	1014.8	20.	316.
19:13-19:23	-7.3	1014.8	20.	313.
19:18-19:28	-7.4	1014.8	21.	311.
19:23-19:33	-7.6	1014.8	21.	307.
19:28-19:38	-7.7	1014.8	20.	304.
19:33-19:43	-7.9	1014.9	20.	305.
19:38-19:48	-7.9	1014.9	21.	305.
19:43-19:53	-8.1	1015.0	22.	304.
19:48-19:58	-8.2	1015.0	23.	304.
19:53-20:03	-8.3	1015.1	21.	302.
19:58-20:08	-8.4	1015.2	20.	301.
20:03-20:13	-8.5	1015.5	21.	302.
20:08-20:18	-8.5	1015.7	22.	303.
20:13-20:23	-8.6	1015.8	20.	304.
20:18-20:28	-8.7	1015.8	18.	301.
20:23-20:33	-8.8	1015.8	17.	295.
20:28-20:38	-9.0	1015.8	17.	296.
20:33-20:43	-9.1	1015.8	18.	299.
20:38-20:48	-9.3	1015.9	18.	300.
20:43-20:53	-9.4	1015.9	18.	300.
20:48-20:58	-9.6	1015.9	17.	299.
20:53-21:03	-9.7	1016.0	17.	296.
20:58-21:08	-9.8	1016.0	18.	296.
21:03-21:13	-9.8	1016.0	17.	300.
21:08-21:18	-9.8	1016.0	18.	303.
21:13-21:23	-9.8	1016.0	18.	303.
21:18-21:28	-9.9	1016.1	17.	300.
21:23-21:33	-10.0	1016.1	18.	297.
21:28-21:38	-10.0	1016.1	19.	295.
21:33-21:43	-10.0	1016.2	19.	294.
21:38-21:48	-10.1	1016.3	19.	294.
21:43-21:53	-10.1	1016.6	19.	294.
21:48-21:58	-10.2	1016.7	18.	293.
21:53-22:03	-10.3	1016.8	18.	291.
21:58-22:08	-10.3	1016.7	17.	293.
22:03-22:13	-10.3	1016.7	16.	292.
22:08-22:18	-10.3	1016.7	17.	290.

BARRIE\_DERAIL : 0702

Time	Temp	Barom	Wind-Spd	Wind-Dir
22:13-22:23	-10.3	1016.6	19.	289.
22:18-22:28	-10.3	1016.5	21.	286.
22:23-22:33	-10.4	1016.6	19.	286.
22:28-22:38	-10.5	1016.8	19.	287.
22:33-22:43	-10.5	1016.8	19.	289.
22:38-22:48	-10.4	1016.8	20.	290.
22:43-22:53	-10.3	1016.8	21.	289.
22:48-22:58	-10.2	1016.9	21.	289.
22:53-23:03	-10.1	1016.9	23.	291.
22:58-23:08	-10.0	1016.9	24.	293.
23:03-23:13	-9.9	1016.9	24.	290.
23:08-23:18	-9.9	1017.0	24.	289.
23:13-23:23	-10.0	1017.0	24.	291.
23:18-23:28	-10.1	1017.0	22.	294.
23:23-23:33	-10.2	1017.0	20.	297.
23:28-23:38	-10.2	1017.1	20.	299.
23:33-23:43	-10.2	1017.1	21.	300.
23:38-23:48	-10.2	1017.1	20.	301.
23:43-23:53	-10.2	1017.1	19.	302.
23:48-23:58	-10.2	1017.2	19.	303.
23:53-00:03	-10.1	1017.2	19.	304.
23:58-00:08	-10.2	1017.2	18.	305.
82/03/08				
00:03-00:13	-10.2	1017.2	18.	308.
00:08-00:18	-10.3	1017.2	18.	310.
00:13-00:23	-10.4	1017.2	19.	312.
00:18-00:28	-10.4	1017.2	19.	313.
00:23-00:33	-10.4	1017.4	19.	312.
00:28-00:38	-10.5	1017.7	18.	313.
00:33-00:43	-10.6	1017.8	17.	313.
00:38-00:48	-10.8	1017.8	15.	313.
00:43-00:53	-11.0	1017.9	15.	314.
00:48-00:58	-11.2	1018.0	15.	312.
00:53-01:03	-11.3	1018.1	14.	310.
00:58-01:08	-11.5	1018.1	13.	310.
01:03-01:13	-11.7	1018.1	12.	310.
01:08-01:18	-11.8	1018.4	12.	304.
01:13-01:23	-11.8	1018.7	13.	300.
01:18-01:28	-11.9	1018.8	14.	300.
01:23-01:33	-12.0	1018.8	15.	300.
01:28-01:38	-12.0	1018.8	15.	299.
01:33-01:43	-12.0	1018.8	14.	298.
01:38-01:48	-12.2	1018.9	15.	298.
01:43-01:53	-12.4	1019.0	14.	297.
01:48-01:58	-12.6	1019.0	13.	297.
01:53-02:03	-12.9	1019.1	14.	298.
01:58-02:08	-13.1	1019.1	14.	297.
02:03-02:13	-13.2	1019.2	13.	296.
02:08-02:18	-13.5	1019.4	11.	295.
02:13-02:23	-13.8	1019.6	10.	292.
02:18-02:28	-14.0	1019.8	11.	293.
02:23-02:33	-14.2	1019.8	12.	297.
02:28-02:38	-14.3	1019.8	13.	301.
02:33-02:43	-14.4	1019.8	14.	302.
02:38-02:48	-14.5	1019.9	15.	304.

BARRIE\_DERAIL : 0702

Time	Temp	Barom	Wind-Spd	Wind-Dir
02:43-02:53	-14.7	1019.9	15.	308.
02:48-02:58	-14.9	1020.0	14.	309.
02:53-03:03	-15.1	1020.1	13.	310.
02:58-03:08	-15.4	1020.1	13.	313.
03:03-03:13	-15.5	1020.1	13.	313.
03:08-03:18	-15.6	1020.2	14.	313.
03:13-03:23	-15.7	1020.3	14.	312.
03:18-03:28	-15.8	1020.6	15.	314.
03:23-03:33	-15.9	1020.7	14.	314.
03:28-03:38	-16.0	1020.8	14.	314.
03:33-03:43	-16.1	1020.8	14.	314.
03:38-03:48	-16.2	1020.9	14.	314.
03:43-03:53	-16.3	1020.9	14.	314.
03:48-03:58	-16.4	1021.0	13.	313.
03:53-04:03	-16.6	1021.1	12.	312.
03:58-04:08	-16.7	1021.1	11.	313.
04:03-04:13	-16.8	1021.2	9.	313.
04:08-04:18	-16.9	1021.4	9.	314.
04:13-04:23	-17.1	1021.7	9.	316.
04:18-04:28	-17.1	1021.8	10.	318.
04:23-04:33	-17.2	1021.8	9.	320.
04:28-04:38	-17.4	1021.9	7.	325.
04:33-04:43	-17.7	1021.9	6.	330.
04:38-04:48	-17.9	1022.0	4.	331.
04:43-04:53	-18.1	1022.1	3.	333.
04:48-04:58	-18.3	1022.1	3.	332.
04:53-05:03	-18.4	1022.2	1.	331.
04:58-05:08	-18.6	1022.5	0.	337.
05:03-05:13	-18.9	1022.8	0.	338.
05:08-05:18	-19.1	1022.9	0.	329.
05:13-05:23	-19.2	1022.9	0.	319.

BARRIE\_DERAIL : 0702

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-11.4	1017.7	-	-
Std. Dev.	3.6	2.5	-	-
Min Reading	-19.3	1013.6	.1	280.2
Max Reading	-5.2	1023.0	28.7	342.9
Min Average	-19.2	1013.8	.2	285.7
Max Average	-5.3	1022.9	24.4	338.4
# Valid Rdgs	686.	686.	686.	686.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
nd Average is less than Min. Detectable Level  
m One or more readings Missing  
\* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
Averaging Started at Nearest: .0 min

Start: 82/03/08 08:00 Scan: 60 sec  
Average: 10.0 min Report: 5.0 min  
Loc: 100m S on hwy #400 from Medonte conc #6

Time	Temp	Barom	Wind-Spd	Wind-Dir
08:00-08:10	-18.3	1026.3	7.	316.
08:05-08:15	-18.2	1026.5	6.	314.
08:10-08:20	-18.1	1026.7	6.	313.
08:15-08:25	-18.0	1026.8	7.	316.
08:20-08:30	-17.9	1026.8	7.	318.
08:25-08:35	-17.8	1026.9	6.	316.
08:30-08:40	-17.6	1027.0	5.	313.

BARRIE\_DERAIL : 0801

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-17.9	1026.7	-	-
Std. Dev.	.3	.3	-	-
Min Reading	-18.4	1026.2	1.3	293.5
Max Reading	-17.3	1027.1	10.4	331.1
Min Average	-18.3	1026.3	4.5	312.5
Max Average	-17.6	1027.0	7.3	318.1
# Valid Rgds	44.	44.	44.	44.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
 nd Average is less than Min. Detectable Level  
 m One or more readings Missing  
 \* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
 Averaging Started at Nearest: .0 min

BARRIE\_DERAIL : 0802

Start: 82/03/08 09:08      Scan: 60 sec  
Average: 10.0 min      Report: 5.0 min  
Loc: New parking lot on Medonte conc #6 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
09:08-09:18	-15.1	1027.9	9.	294.
09:13-09:23	-14.8	1028.0	10.	294.
09:18-09:28	-14.8	1028.1	13.	297.
09:23-09:33	-15.2	1028.1	13.	298.
09:28-09:38	-15.3	1028.2	13.	297.
09:33-09:43	-15.2	1028.5	15.	297.
09:38-09:48	-15.0	1028.7	15.	294.

BARRIE\_DERAIL : 0802

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-15.0	1028.3	-	-
Std. Dev.	.3	.3	-	-
Min Reading	-15.6	1027.9	6.0	282.1
Max Reading	-14.1	1028.8	18.5	305.2
Min Average	-15.3	1027.9	8.7	293.6
Max Average	-14.8	1028.7	15.0	298.2
# Valid Rdgs	42.	42.	42.	42.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
 nd Average is less than Min. Detectable Level  
 m One or more readings Missing  
 \* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
 Averaging Started at Nearest: .0 min

## BARRIE\_DERAIL : 0803

Start: 02/03/08 10:29      Scan: 60 sec  
 Average: 10.0 min      Report: 5.0 min  
 Loc: New parking lot on Medonte conc #6 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
10:29-10:39	-13.8	1029.1	15.	300.
10:34-10:44	-13.6	1029.1	12.	299.
10:39-10:49	-12.8	1029.1	11.	289.
10:44-10:54	-12.7	1029.1	12.	288.
10:49-10:59	-12.9	1029.1	11.	291.
10:54-11:04	-12.3	1029.1	11.	287.
10:59-11:09	-12.1	1029.2	12.	297.
11:04-11:14	-12.4	1029.2	14.	308.
11:09-11:19	-12.6	1029.2	15.	309.
11:14-11:24	-12.5	1029.2	15.	304.
11:19-11:29	-12.1	1029.2	15.	296.
11:24-11:34	-11.9	1029.1	14.	292.
11:29-11:39	-11.7	1029.1	15.	289.
11:34-11:44	-11.6	1029.1	15.	288.
11:39-11:49	-11.4	1029.1	13.	288.
11:44-11:54	-10.8	1029.1	12.	287.
11:49-11:59	-10.5	1029.1	10.	287.
11:54-12:04	-10.2	1029.1	9.	289.
11:59-12:09	-10.0	1029.2	10.	288.
12:04-12:14	-10.2	1029.2	10.	293.
12:09-12:19	-10.1	1029.2	11.	295.
12:14-12:24	-9.8	1029.3	11.	297.
12:19-12:29	-10.1	1029.6	12.	303.
12:24-12:34	-10.7	1029.8	13.	304.
12:29-12:39	-10.8	1029.8	11.	298.
12:34-12:44	-9.8	1029.8	10.	284.
12:39-12:49	-8.5	1029.8	11.	276.
12:44-12:54	-8.3	1029.8	10.	275.
12:49-12:59	-8.5	1029.8	9.	276.
12:54-13:04	-8.4	1029.8	8.	285.
12:59-13:09	-8.3	1029.8	9.	285.
13:04-13:14	-8.6	1029.7	8.	284.
13:09-13:19	-8.9	1029.7	8.	288.
13:14-13:24	-8.8	1029.7	10.	285.
13:19-13:29	-9.0	1029.4	8.	292.
13:24-13:34	-9.3	1029.2	10.	311.
13:29-13:39	-9.7	1029.2	13.	303.
13:34-13:44	-9.1	1029.2	12.	283.
13:39-13:49	-8.3	1029.2	14.	273.
13:44-13:54	-8.1	1029.2	14.	274.
13:49-13:59	-8.0	1029.5	12.	280.
13:54-14:04	-8.3	1029.8	12.	282.
13:59-14:09	-8.7	1029.8	11.	284.
14:04-14:14	-8.6	1029.7	8.	285.
14:09-14:19	-8.7	1029.4	9.	301.
14:14-14:24	-9.5	1029.2	12.	316.
14:19-14:29	-9.6	1029.2	12.	303.
14:24-14:34	-8.8	1029.2	11.	287.
14:29-14:39	-8.2	1029.2	8.	287.
14:34-14:44	-8.2	1029.2	10.	294.
14:39-14:49	-9.0	1029.2	14.	303.

BARRIE\_DERAIL : 0803

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-10.2	1029.3	-	-
Std. Dev.	1.7	.3	-	-
Min Reading	-14.0	1029.0	1.9	253.1
Max Reading	-7.7	1029.8	19.6	331.3
Min Average	-13.8	1029.1	8.1	273.1
Max Average	-8.0	1029.8	15.4	316.1
# Valid Rdgs	262.	262.	262.	262.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
nd Average is less than Min. Detectable Level  
m One or more readings Missing  
\* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
Averaging Started at Nearest: .0 min

Start: 82/03/09 09:45 Scan: 60 sec  
 Average: 10.0 min Report: 5.0 min  
 Loc: New parking lot on Medonte conc #6 near hwy #400

Time	Temp	Barom	Wind-Spd	Wind-Dir
09:45-09:55	-8.1	1022.2	11.	66.
09:50-10:00	-7.9	1022.2	11.	66.
09:55-10:05	-7.8	1022.4	12.	79.
10:00-10:10	-7.6	1022.6	11.	87.
10:05-10:15	-7.4	1022.8	10.	80.
10:10-10:20	-7.2	1022.8	10.	71.
10:15-10:25	-7.2	1022.9	10.	65.
10:20-10:30	-7.1	1023.0	10.	61.
10:25-10:35	-7.0	1023.0	9.	61.
10:30-10:40	-7.0	1023.1	8.	76.
10:35-10:45	-7.0	1023.1	9.	78.
10:40-10:50	-7.0	1023.1	7.	74.
10:45-10:55	-6.8	1023.1	7.	80.
10:50-11:00	-6.6	1023.1	9.	78.
10:55-11:05	-6.5	1023.2	10.	70.
11:00-11:10	-6.5	1023.1	10.	65.
11:05-11:15	-6.3	1023.1	8.	65.
11:10-11:20	-6.2	1023.4	5.	62.
11:15-11:25	-5.9	1023.7	2.	56.
11:20-11:30	-5.6	1023.9	2.	63.
11:25-11:35	-5.5	1023.9	5.	66.
11:30-11:40	-5.5	1023.9	6.	67.
11:35-11:45	-5.6	1023.9	8.	71.
11:40-11:50	-5.6	1023.9	9.	83.
11:45-11:55	-5.5	1023.9	8.	84.
11:50-12:00	-5.3	1023.9	8.	79.
11:55-12:05	-5.2	1024.0	6.	87.
12:00-12:10	-4.9	1024.1	4.	83.
12:05-12:15	-4.5	1024.1	2.	57.
12:10-12:20	-4.5	1024.1	1.	26.
12:15-12:25	-4.7	1024.2	1.	27.
12:20-12:30	-4.5	1024.3	1.	39.
12:25-12:35	-4.3	1024.5	2.	25.
12:30-12:40	-4.4	1024.7	4.	18.
12:35-12:45	-4.5	1024.8	5.	23.
12:40-12:50	-4.5	1024.8	4.	29.
12:45-12:55	-4.4	1024.8	2.	27.
12:50-13:00	-4.1	1024.8	1.	21.
12:55-13:05	-3.5	1024.8	0.	30.

BARRIE\_DERAIL : 0901

Statistics Units	Temp d C	Barom mbar-msl	Wind-Spd km/h	Wind-Dir deg
Arith. Mean	-5.8	1023.6	-	-
Std. Dev.	1.4	.8	-	-
Min Reading	-8.3	1022.1	.0	8.5
Max Reading	-2.2	1024.9	17.1	356.0
Min Average	-8.1	1022.2	.2	17.6
Max Average	-3.5	1024.8	11.8	87.4
# Valid Rdgs	204.	204.	204.	204.
Min.Det.Lev	-	950.0	-	-

- Invalid Data / Not Calculated  
nd Average is less than Min. Detectable Level  
@ One or more readings Missing  
\* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %  
Averaging Started at Nearest: .0 min

CP Train Derailment  
Medonte Township - Simcoe County

Minisonde Releases - Upper Air Soundings

Run Name	Date (mm:dd)	Time of Release (hh:mm)	Cloud Height	Location
Barrie	02:28	1755		On Conc.#6 near Hwy.#400
barri2	03:01	1024	470m	MTC yard on Hwy.#93
barri3	03:01	1120	550m	MTC yard on Hwy.#93
barri5	03:02	1457	840m	MTC yard on Hwy.#93
Barri6	03:03	0727	no wind data, only temp.	MTC yard
Barri7	03:03	0745	no temp. data, only wind.	MTC yard
Barri8	03:03	1434		On Conc.#6 near Hwy.#400
Barri9	03:03	1804		On Conc.#6 near Hwy.#400
bari20	03:04	0732	1,150m	On Conc.#6 near Hwy.#400
bari21	03:06	1106	no temp. data, only wind.	On. Conc.#6
bari22	03:06	1719	1,400m	On Conc.#6 near Hwy.#400
bari23	03:08	0716		On Hwy.#400 near Conc.#6
bari24	03:08	1002		Parking lot on Conc.#6

**NOTE:** The data presented in the following printouts is the real, raw field data. Some interpretation of this data is required. Consider the following:

- i) The wind direction plots have two 'N' - norths. Winds between 350 degrees and 005 degrees will appear to vary considerably on the printouts. Note 'barri9'.
- ii) The wind velocity data - the plot scale may be too large since the data acquisition system records all velocities attained and fits the data accordingly. One bad data point will throw off the entire plot. Note the 'Barri7' plot and data stats.
- iii) The temperature lapse rate should show no abrupt changes. For example, the temperatures above 1,320m as recorded during run 'barri2' must be in error - probably due to the weak minisonde signal received from this elevation.

No editing has been done on this data package.

## **BARRIE DERAILMENT**

## Minisonde Releases - Upper Air Soundings

+++ THEODOLITE REPORT +++

```

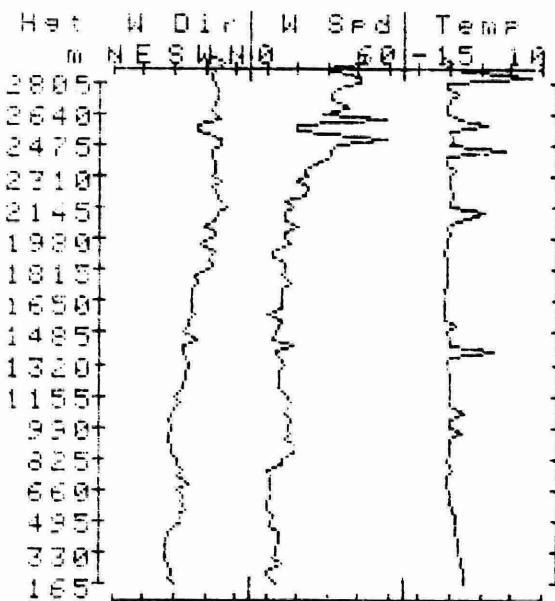
File: banner
Name: Sartie
Loc: 1 km NW crash site
Met: clear and calm
B/L: 58 m. 202 deg
Elev: 39 m
Temp: -5.7995 degC
Scan: 10 sec

```

+++ THEODORE T. DE

File: barrie  
Name: Barrie  
Loc: 1km NW crash site  
Met: clear and calm  
B/L: 60 m 203 deg  
Elev: 90 m  
Temper: -5.7995 degC  
Scan: 19 sec

TIME	HEIGHT	N-O-I	W-S-E	TEMP
850	2638	295	49	8
640	2772	313	36	4
820	2766	295	37	6
800	2664	308	39	2
780	2574	285	39	1
760	2508	311	39	1
740	2442	245	37	1
720	2376	213	31	2
700	2318	291	31	2
680	2244	298	30	2
660	2176	302	29	1
640	2112	326	28	1
620	2046	383	28	1
600	1980	281	27	1
580	1914	273	27	1
560	1848	289	27	1
540	1782	243	27	1
520	1716	211	27	1
500	1656	205	27	1
480	1584	205	27	1
460	1516	211	27	1
440	1456	209	27	1
420	1386	208	27	1
400	1325	204	27	1
380	1258	202	27	1
360	1182	202	27	1
340	1106	204	27	1
320	1030	206	27	1
300	954	205	27	1
280	874	205	27	1
180	796	205	27	1
160	716	204	27	1
140	636	205	27	1
120	556	205	27	1
100	476	204	27	1



## BARRIE DERAILMENT

## Minisonde Releases - Upper Air Soundings

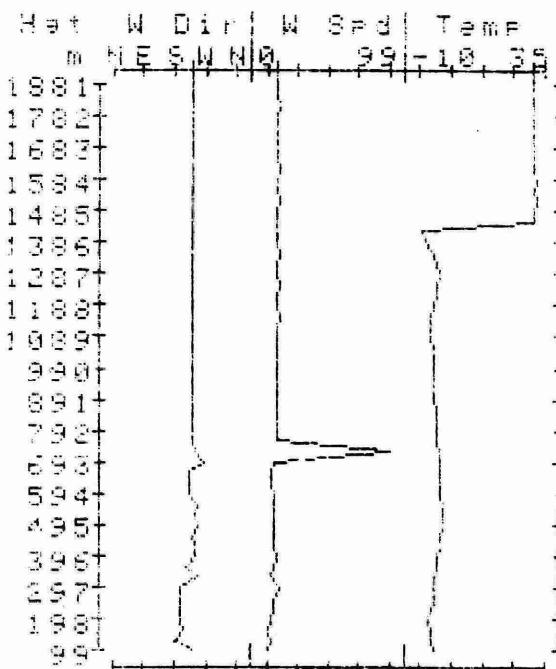
+++ THEODOLITE REPORT +++

File: Barrie2  
 Name: Barrie2  
 Loc: MTC yard  
 Met: overcast 2kmhr from s  
 B/L: 60 m, 320 deg  
 Elev: 90 m  
 Temp: -4.9761 degC  
 Scan: 10 sec

+++ THEODOLITE PLOT +++

File: Barrie2  
 Name: Barrie2  
 Loc: MTC yard  
 Met: overcast 2kmhr from s  
 B/L: 60 m, 320 deg  
 Elev: 90 m  
 Temp: -4.9761 degC  
 Scan: 10 sec

TIME	HEIGHT	W-DI	W-SP	TEMP
586	1814	229	53	31.9
560	1848	229	53	30.9
540	1762	229	53	31.6
520	1716	229	53	31.4
500	1658	229	53	31.6
480	1594	229	53	31.1
460	1516	229	53	31.1
440	1452	229	53	31.1
420	1396	229	53	31.1
400	1328	229	53	31.6
380	1264	229	53	31.4
360	1198	229	53	31.4
340	1132	229	53	31.1
320	1066	229	53	31.1
300	998	229	53	31.1
280	924	229	53	31.1
260	850	229	53	31.4
240	776	229	53	31.4
220	702	229	53	31.4
200	628	229	53	31.3
180	554	229	53	31.3
160	480	229	53	31.4
140	406	229	53	31.4
120	332	229	53	31.4
100	258	229	53	31.4
80	184	219	46	31.4
60	120	193	32	31.5
40	132	197	19	31.6
20	66	192	00	31.3



## **BARRIE DERAILMENT**

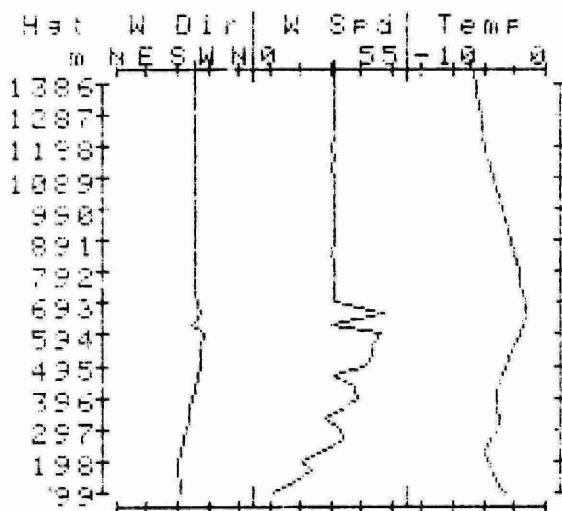
## Minisonde Releases - Upper Air Soundings

+++ THE END +++

File: barri17  
Name: Barris  
Loc: MTC yard  
Met: overcast 4kmhr s variable  
BBL: 58 6 85 deg  
Elev: 90 m  
Temp: -2 7797 degC  
Scan: 10 sec

File: barri3  
Name: Barri3  
Loc: MTC yard  
Met: overcast 4kmhr z variable  
B/L: 50 m. 85 deg  
Elev: 90 m  
Temp: -2.7797 degC  
Scan: 10 sec

TIME	HEIGHT	W-01	W-SP	TEMP
4 48	1452	229	29	40
4 36	1411	228	30	39
4 26	1363	228	30	38
4 16	1327	228	30	37
4 06	1287	228	30	36
3 06	1241	228	30	35
3 06	1198	228	30	34
3 06	1156	228	30	33
3 06	1096	228	30	32
3 06	1052	228	30	31
3 06	995	228	30	30
3 06	937	228	30	29
3 06	877	228	30	28
3 06	816	228	30	27
3 06	756	228	30	26
3 06	696	228	30	25
3 06	636	228	30	24
3 06	574	228	30	23
3 06	514	228	30	22
3 06	453	228	30	21
3 06	391	228	30	20
3 06	330	228	30	19
3 06	269	228	30	18
3 06	207	228	30	17
3 06	145	228	30	16
3 06	83	228	30	15
3 06	21	228	30	14
1 06	00	228	30	13
1 06	14	228	30	12
1 06	56	228	30	11
1 06	94	228	30	10
1 06	132	228	30	9
1 06	169	228	30	8
1 06	206	228	30	7
1 06	243	228	30	6
1 06	280	228	30	5
1 06	317	228	30	4
1 06	354	228	30	3
1 06	391	228	30	2
1 06	428	228	30	1
1 06	465	228	30	0



## BARRIE DERAILMENT

## Minisonde Releases - Upper Air Soundings

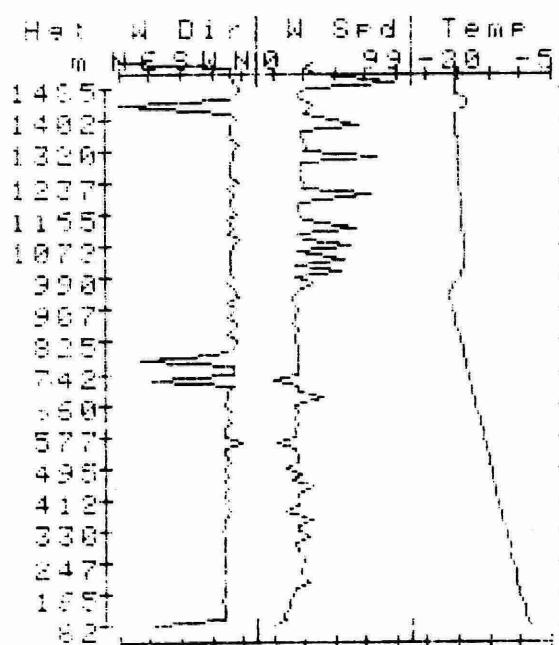
## +++ THEODOLITE REPORT +++

File: barri5  
 Name: Barri5  
 Loc: MTC yard  
 Met: mainly sunny 25kmhr nw  
 B/L: 60 m. 120 deg  
 Elev: 240 m  
 Temp: -6.7541 degC  
 Scan: 5 sec

## +++ THEODOLITE PLOT +++

File: barri5  
 Name: Barri5  
 Loc: MTC yard  
 Met: mainly sunny 25kmhr nw  
 B/L: 60 m. 120 deg  
 Elev: 240 m  
 Temp: -6.7541 degC  
 Scan: 5 sec

TIME	HEIGHT	W-DI	W-SP	TEMP
465	1525	325	33	-16.6
480	1485	339	41	-16.6
485	1436	348	68	-16.6
490	1386	338	35	-16.6
495	1337	338	65	-16.6
500	1287	335	33	-16.4
505	1239	329	59	-16.3
510	1188	321	31	-16.2
515	1139	321	55	-16.0
520	1089	321	52	-15.9
525	1040	322	48	-15.6
530	990	325	45	-15.5
535	941	323	49	-15.2
540	891	326	23	-15.1
545	842	324	23	-15.1
550	792	321	26	-15.0
555	743	326	14	-15.1
560	693	324	16	-15.1
565	644	321	37	-14.6
570	594	317	26	-14.4
575	545	316	26	-13.6
580	495	318	19	-12.9
585	446	318	23	-12.9
590	396	312	30	-11.1
595	347	311	21	-11.1
600	297	306	32	-10.6
605	246	309	31	-10.6
610	199	306	33	-9.9
615	149	307	21	-9.9
620	99	307	19	-9.9
625	50	313	4	-7.5



## BARRIE DERAILMENT

## Minisonde Releases - Upper Air Soundings

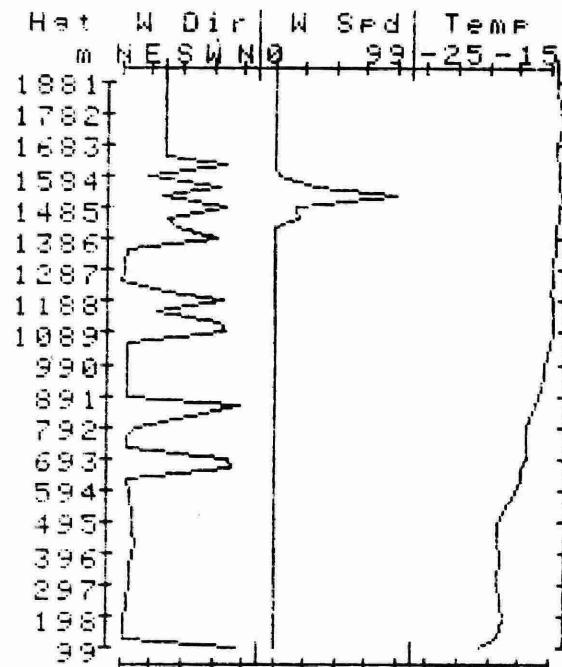
## +++ THEODOLITE REPORT +++

File: Barrie  
 Name: Barrie  
 Loc: MTC yard  
 Met: Calm cold clear  
 B/L: 50 m, 305 deg  
 Elev: 240 m  
 Temp: -24.188 degC  
 Scan: 10 sec

## +++ THEODOLITE PLOT +++

File: Barrie  
 Name: Barrie  
 Loc: MTC yard  
 Met: Calm cold clear  
 B/L: 50 m, 305 deg  
 Elev: 240 m  
 Temp: -24.188 degC  
 Scan: 10 sec

TIME	HEIGHT	W-DI	W-SR	TEMP
560	1848	126	503	-14.5
540	1782	125	391	-14.4
520	1716	126	473	-14.1
500	1650	126	471	-14.3
480	1584	127	103	-14.4
460	1518	296	5001	-14.2
440	1452	122		-14.0
420	1386	135	3079	-14.2
400	1320	339	239	-14.4
380	1254	5	23	-14.6
360	1188	124	132	-14.7
340	1122	85	146	-14.7
320	1056	297	386	-14.6
300	990	17	22	-15.0
280	924	19	22	-15.4
260	858	18	22	-15.6
240	792	220	11	-16.1
220	726	30	25	-15.7
200	660	343	23	-16.0
180	594	345	46	-17.2
160	528	28	32	-17.8
140	462	35	35	-18.8
120	396	39	36	-19.3
100	330	38	32	-19.0
80	264	23	33	-19.1
60	198	16	19	-19.0
40	132	9	18	-18.7
20	66	359	6	-19.3



BARRIE DERAILMENT

Minisonde Releases - Upper Air Soundings

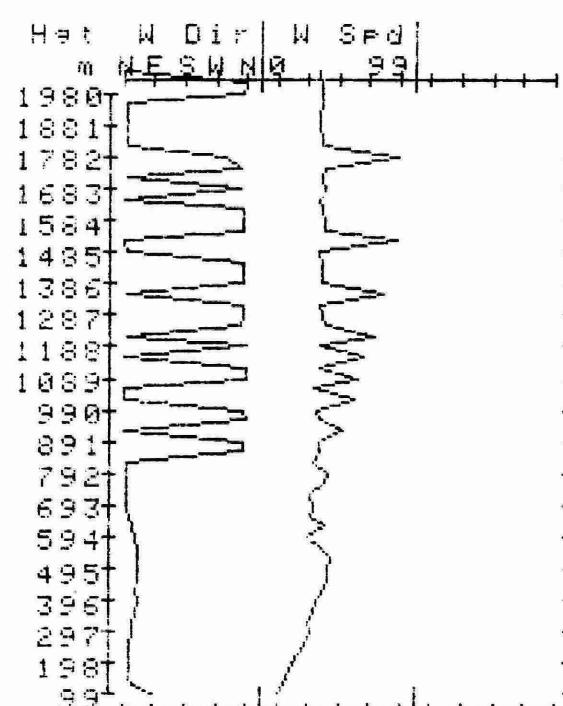
+++ THEODOLITE REPORT +++

File: Barri7  
 Name: Barri7  
 Loc: MTC yard  
 Met: clear cold calm  
 B/L: 50 m. 305 deg  
 Elev: 240 m  
 Temp: -22.671 degC  
 Scan: 10 sec

+++ THEODOLITE PLU,

File: Barri7  
 Name: Barri7  
 Loc: MTC yard  
 Met: clear cold calm  
 B/L: 50 m. 305 deg  
 Elev: 240 m  
 Temp: -22.671 degC  
 Scan: 10 sec

TIME	HEIGHT	W-DI	W-SP	TEMP
600	1980	1	37	0.0
580	1914	356	37	0.0
560	1848	5	36	0.0
540	1782	5	37	0.0
520	1716	311	67	0.0
500	1650	355	38	0.0
480	1584	356	37	0.0
460	1518	347	48	0.0
440	1452	4	69	0.0
420	1386	351	38	0.0
400	1320	6	63	0.0
380	1254	352	36	0.0
360	1188	359	68	0.0
340	1122	359	55	0.0
320	1056	357	53	0.0
300	990	4	48	0.0
280	924	356	34	0.0
260	858	357	46	0.0
240	792	359	32	0.0
220	726	6	42	0.0
200	660	10	38	0.0
180	594	24	35	0.0
160	528	39	32	0.0
140	462	42	44	0.0
120	396	38	41	0.0
100	330	37	32	0.0
80	264	27	27	0.0
60	198	19	21	0.0
40	132	16	11	0.0
20	66	29	8	0.0



## BARRIE DERAILMENT

## Minisonde Releases - Upper Air Soundings

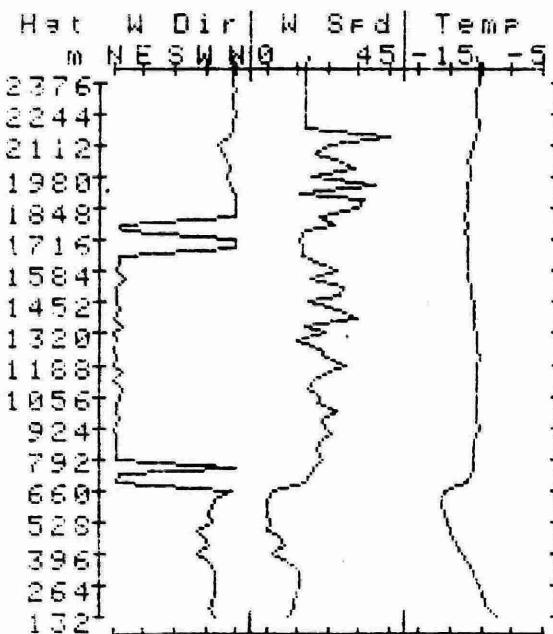
## +++ THEODOLITE REPORT +++

File: barri8  
 Name: Barri8  
 Loc: 400 & conc 6  
 Met: clear  
 B/L: 50 m, 175 deg  
 Elev: 240 m  
 Temp: -7.995 degC  
 Scan: 10 sec

## +++ THEODOLITE PLOT +++

File: barri8  
 Name: Barri8  
 Loc: 400 & conc 6  
 Met: clear  
 B/L: 50 m, 175 deg  
 Elev: 240 m  
 Temp: -7.995 degC  
 Scan: 10 sec

TIME	HEIGHT	W-DI	W-SF	TEMP
740	2442	354	15	-10.5
720	2376	354	15	-10.3
700	2310	354	15	-10.0
680	2244	355	15	-10.3
660	2178	354	15	-10.4
640	2112	354	15	-10.2
620	2046	328	32	-10.3
600	1980	332	21	-11.0
580	1914	337	24	-10.9
560	1848	349	26	-11.0
540	1782	359	34	-11.1
520	1716	8	22	-11.2
500	1650	11	13	-11.3
480	1584	9	13	-11.0
460	1518	13	22	-11.1
440	1452	19	21	-11.0
420	1386	8	21	-10.8
400	1320	7	29	-10.6
380	1254	12	17	-10.6
360	1188	3	15	-10.4
340	1122	5	25	-10.3
320	1056	14	20	-10.4
300	990	22	17	-10.5
280	924	10	22	-10.4
260	858	9	21	-10.3
240	792	9	22	-10.3
220	726	8	20	-10.6
200	660	7	17	-10.7
180	594	1	8	-11.2
160	528	294	8	-13.3
140	462	287	1	-13.6
120	396	266	8	-12.4
100	330	278	4	-12.0
80	264	288	10	-11.1
60	198	298	12	-10.5
40	132	295	11	-9.9
20	66	291	9	-9.3



## BARRIE DERAILMENT

## Minisonde Releases - Upper Air Soundings

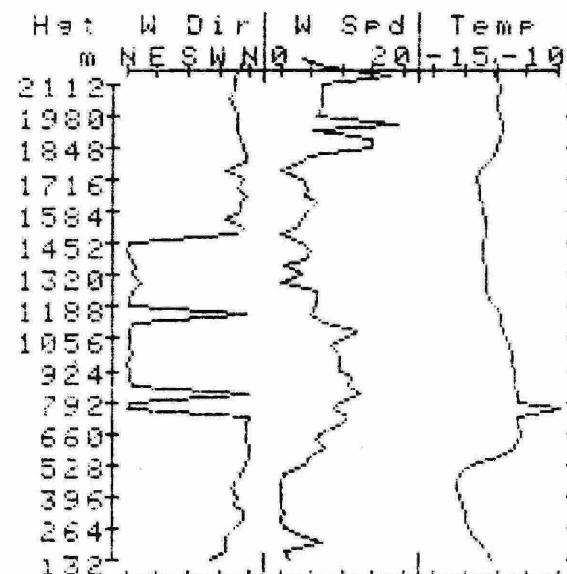
## +++ THEODOLITE REPORT +++

File: barri9  
 Name: Barri9  
 Loc: 400 & conc 6  
 Met: clear calm  
 S/L: 50 m, 130 deg  
 Elev: 240 m  
 Temp: -12.834 degC  
 Scan: 10 sec

## +++ THEODOLITE PLOT +++

File: barri9  
 Name: Barri9  
 Loc: 400 & conc 6  
 Met: clear calm  
 S/L: 50 m, 130 deg  
 Elev: 240 m  
 Temp: -12.834 degC  
 Scan: 10 sec

TIME	HEIGHT	W-DI	W-SP	TEMP
640	2112	334	5	-12.5
620	2046	315	12	-12.5
600	1980	310	7	-12.4
580	1914	316	5	-12.4
560	1848	323	12	-12.3
540	1782	337	15	-12.4
520	1716	351	4	-12.6
500	1650	327	8	-13.1
480	1584	340	4	-13.2
460	1518	320	5	-13.1
440	1452	315	8	-13.0
420	1386	357	8	-12.9
400	1320	10	4	-13.0
380	1254	20	1	-13.0
360	1188	56	8	-13.0
340	1122	11	6	-12.8
320	1056	7	5	-12.5
300	990	7	12	-12.5
280	924	12	9	-12.0
260	858	6	10	-11.8
240	792	12	11	-11.8
220	726	3	11	-11.7
200	660	359	10	-9.9
180	594	350	8	-11.6
160	528	354	5	-11.6
140	462	354	4	-12.3
120	396	331	8	-14.0
100	330	316	8	-14.1
80	264	331	8	-13.9
60	198	326	8	-13.8
40	132	269	5	-13.4
2	7	269	1	-12.9



## BARRIE DERAILMENT

## Minisonde Releases - Upper Air Soundings

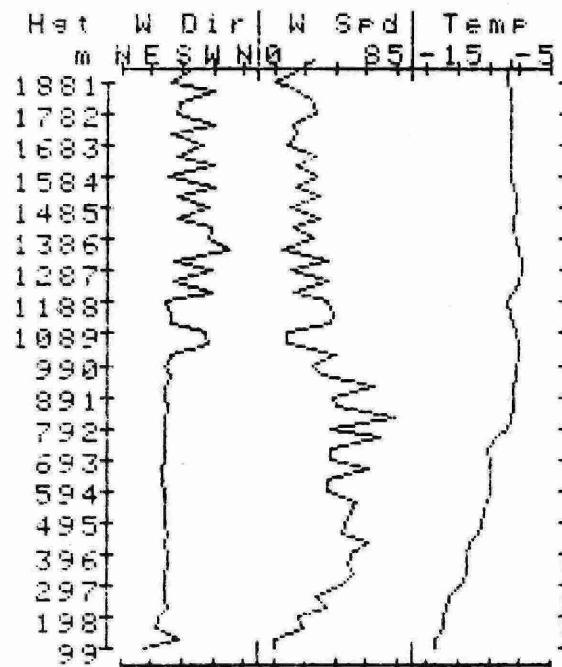
## +++ THEODOLITE REPORT +++

File: bari20  
 Name: bari20  
 Loc: conc#6 & Hwy 400  
 Met:  
 altostratus light northerly wind  
 S  
 B/L: 50 m, 115 deg  
 Elev: 240 m  
 Temp: -14.097 degC  
 Scan: 10 sec

## +++ THEODOLITE PLOT +++

File: bari20  
 Name: bari20  
 Loc: conc#6 & Hwy 400  
 Met:  
 altostratus light northerly wind  
 S  
 B/L: 50 m, 115 deg  
 Elev: 240 m  
 Temp: -14.097 degC  
 Scan: 10 sec

TIME	HEIGHT	W-DI	W-SP	TEMP
550	1848	185	5	-8.5
540	1782	209	11	-8.3
520	1716	198	12	-8.3
500	1650	182	5	-8.3
480	1584	199	11	-8.2
460	1518	174	7	-8.1
440	1452	186	13	-7.9
420	1386	191	11	-7.9
400	1320	268	13	-7.7
380	1254	179	14	-7.3
360	1188	177	14	-7.4
340	1122	141	38	-8.4
320	1056	166	17	-7.9
300	990	164	17	-7.5
280	924	146	29	-7.7
260	858	129	55	-8.0
240	792	163	63	-8.0
220	726	129	57	-8.5
200	660	129	38	-10.0
180	594	123	52	-9.9
160	528	139	47	-9.9
140	462	128	51	-10.4
120	396	133	56	-10.9
100	330	134	52	-11.7
80	264	131	50	-11.6
60	198	133	33	-13.2
40	132	106	19	-13.7
20	66	81	8	-14.3



## BARRIE DERAILMENT

## Minisonde Releases - Upper Air Soundings

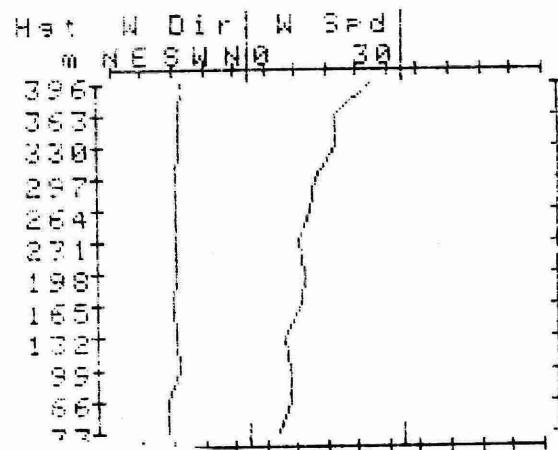
## +++ THEODOLITE REPORT +++

File: bari21  
 Name: Bari21  
 Loc: 400 & conc #6  
 Met: clear and light sw  
 B/L: 50 m, 118 deg  
 Elev: 240 m  
 Temp: 185812 degC  
 Scan: 10 sec

## +++ THEODOLITE PLOT +++

File: bari21  
 Name: Bari21  
 Loc: 400 & conc #6  
 Met: clear and light sw  
 B/L: 50 m, 118 deg  
 Elev: 240 m  
 Temp: 185812 degC  
 Scan: 10 sec

TIME	HEIGHT	W-DI	W-SP	TEMP
120	396	203	26	0.0
110	363	199	17	0.0
100	330	196	17	0.0
90	297	196	12	0.0
80	264	187	11	0.0
70	231	195	0.0	0.0
60	198	189	0.0	0.0
50	165	190	0.0	0.0
40	132	196	4	0.0
30	99	194	0.0	0.0
20	66	196	0.0	0.0
10	33	167	0	0.0



## **BARRIE DERAILMENT**

## Minisonde Releases - Upper Air Soundings

+++ THEODOOLIE REFORI +++

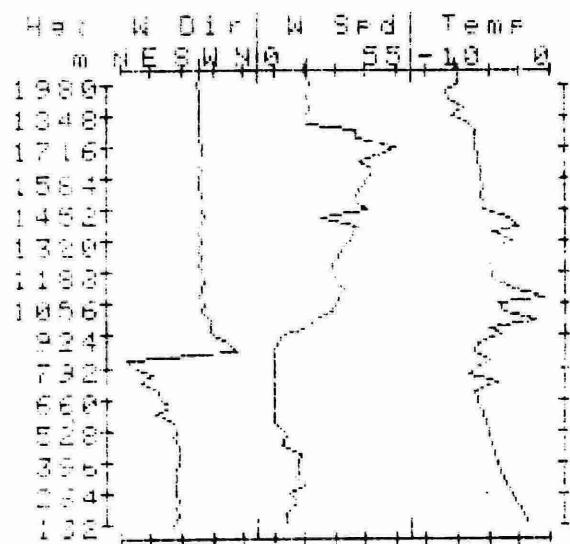
```

File  ber120
Name  Ber122
Loc  400 8 conc 0
Per  ministr
Dil  30 0 00 000
Time  240 0
Date  11-06-00 00:00
Locat  10 900

```

### \*\*\* THEODULITE PLOT \*\*\*

File: bari22  
Name: Bari22  
Loc: 400 & conc 6  
Met: altstr  
B/L: 30 m 85 deg  
Elev: 240 m  
Temp: -1.6616 degC  
Scan: 10 sec



## BARRIE DERAILMENT

## Minisonde Releases - Upper Air Soundings

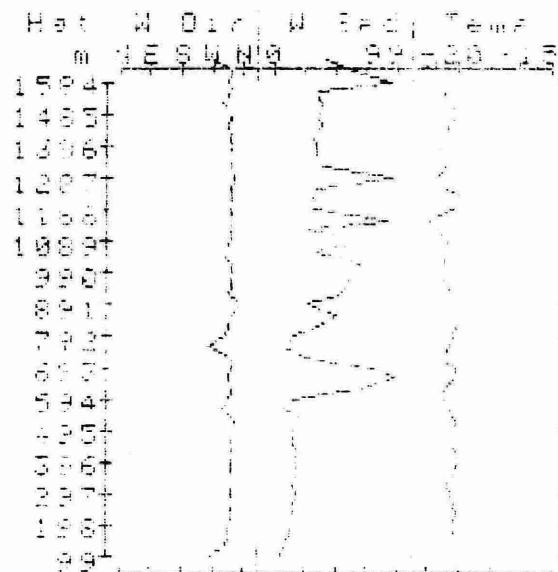
## +++ THEODOLITE REPORT +++

File: DR#1  
 Name: bari23  
 Loc: Hwy #400 @ Conc #6  
 Met:  
 clear sunny light westerly wds  
 B/L: 58 m, 218 deg  
 Elev: 240 m  
 Temp: -18.986 degC  
 Scan: 10 sec

## +++ THEODOLITE PLOT +++

File: DR#1  
 Name: bari23  
 Loc: Hwy #400 @ Conc #6  
 Met:  
 clear sunny light westerly wds  
 B/L: 58 m, 218 deg  
 Elev: 240 m  
 Temp: -18.986 degC  
 Scan: 10 sec

TIME	HEIGHT	W-DI	W-SF	TEMP
480	1584	311	76	-19.7
460	1518	315	99	-19.6
440	1452	310	56	-19.2
420	1386	320	54	-19.3
400	1320	323	52	-19.6
380	1254	326	103	-19.3
360	1188	322	51	-19.3
340	1122	326	98	-19.0
320	1056	322	76	-19.6
300	990	320	78	-19.3
280	924	321	94	-19.0
260	858	327	60	-18.9
240	792	321	66	-19.6
220	726	286	15	-19.0
200	660	324	79	-19.5
180	594	321	130	-18.8
160	528	311	17	-19.3
140	462	330	27	-18.9
120	396	322	24	-19.1
100	330	323	27	-19.0
80	264	325	25	-19.2
60	198	323	23	-19.0
40	132	319	20	-19.2
20	66	289	11	-18.5



## **BARRIE DERAILMENT**

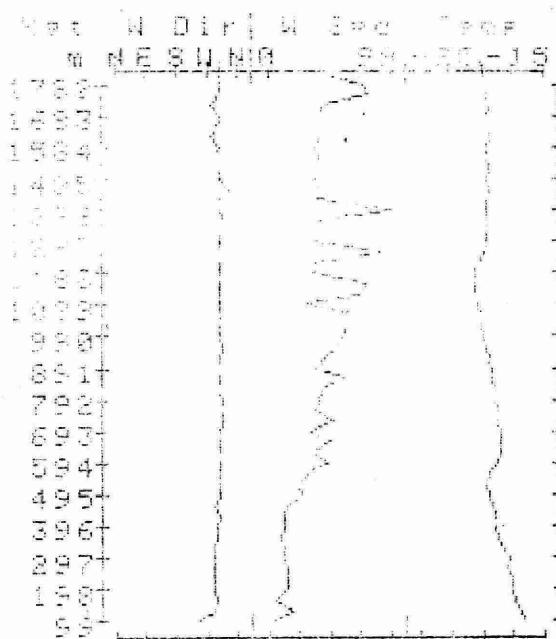
## Minisonde Releases - Upper Air Soundings

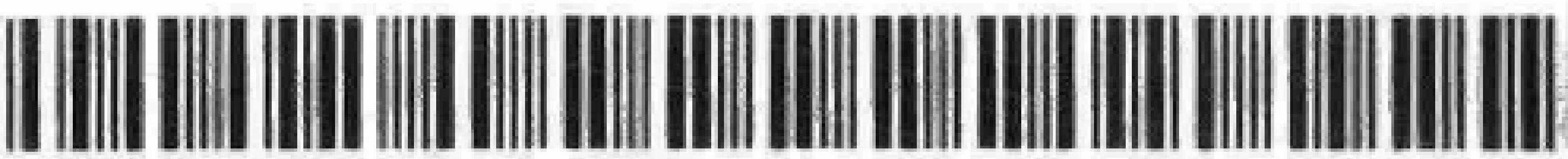
## +++ THEODOLITE REPORT +++

File: DB#2  
 Name: Berl 24  
 Loc: Forest  
 Sect: Class 1  
 B/L: 200 m 150 deg  
 Elev: 240 m  
 Temp: 14.4 14.0 deg C  
 Sun: 10 00 00

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Time	0900
Loc.	Berlin 84
Loc.	Pentire lot 120000
Time	0100 1100 1600
B.L.	20 m 280 deg
Blev.	240 m
Temp.	+14.41 e. deg C
Wind	16





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